EAST Search History

L12	0	(distribut$3 near4 application) and (application near4 discover$3 near5 manager) and detect$3 and presence and (platform near4 independent) and quiescence and (@ad<"20031001")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/03 16:56
L13	0	(distribut$3 near4 application) and (application near4 discover$3) and (manager) and detect$3 and presence and (platform near4 independent) and quiescence and (@ad<"20031001")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/03 16:56
L14	0	(distribut$3 near4 application) and (application near4 discover$3) and (manager) and detect$3 and (platform near4 independent) and quiescence and (@ad<"20031001")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/03 16:56
L15	70	(distribut$3 near4 application) and (application near4 discover$3) and (manager) and detect$3 and (platform near4 independent) and presence and (@ad<"20031001")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/03 16:59
L16	3	(distribut$3 near4 application) and (application near4 discover$3 near4 manager) and detect$3 and (platform near4 independent) and presence and (@ad<"20031001")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/03 16:56
S1	0	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and (insert$3 near3 preced$3)	US-PGPUB; USPAT	OR	ON	2004/05/13 13:41
S2	25	((top or bottom) adj stack) and (insert$3 near3 preced$3)	US-PGPUB; USPAT	OR	ON	2004/05/13 13:43
S3	30	((top or bottom) adj stack) and (prevent$3 near3 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/13 13:43
S4	30	((top or bottom) adj3 stack) and (insert$3 near3 preced$3)	US-PGPUB; USPAT	OR	ON	2004/05/13 13:43
S5	37	((top or bottom) adj3 stack) and (prevent$3 near3 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/13 13:44
S6	15	(stack near3 (prevent$3 near3 corrupt$3))	US-PGPUB; USPAT	OR	ON	2004/05/13 13:45
S7	44	(stack near3 (prevent$3 near3 (over$$flow$3 or under$$flow$3)))	US-PGPUB; USPAT	OR	ON	2004/05/13 14:04
S8	1	("6006323").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/05/13 14:04

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S9	665	(709/1,100).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 10:05
S10	1077	lifo or stack and (overflow or underflow) and (memory adj3 corruption) and (task) and ((709/1, 100).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:13
S11	23	(guard same frame) and (lifo or stack and (overflow or underflow) and (memory adj3 corruption) and (task) and ((709/1,100).CCLS.))	US-PGPUB; USPAT	OR	ON	2002/05/13 14:06
S12	45	(lifo stack) and (overflow underflow) and (memory same corruption) and (task)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:42
S13	2	((709/1,100).CCLS.) and ((lifo stack) and (overflow underflow) and (memory same corruption) and (task))	US-PGPUB; USPAT	OR	ON	2002/05/13 14:14
S14	30973	("370").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/13 14:19
S15	0	("l19andl25").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/13 14:19
S16	15578	("709").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/13 14:19
S17	18	((lifo stack) and (overflow underflow) and (memory same corruption) and (task)) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:34
S18	4	((lifo stack) and (overflow underflow) and (memory same corruption) and (task)) and (("370"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:34
S19	15857	(lifo stack) and (prevent$4) and (push pop)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:43
S20	530	(lifo stack) and (prevent$4) and (push$4 pop$4) and (("709"/$). CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:44
S21	128	(lifo stack) and (prevent$4) and (push$4 pop$4) and (overflow underflow) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:44
S22	44	(lifo stack) and (prevent$4) and (push$4 pop$4) and (overflow underflow) and (memory) and (corrupt$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:45

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S23	41	(lifo stack) and (prevent$4) and (push$4 pop$4) and (overflow underflow) and (memory) and (corrupt$4) and (detect$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 14:56
S24	1	(lifo) and (stack) and (prevent$4) and (push$4 pop$4) and (overflow underflow) and (memory) and (corrupt$4) and (detect$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:13
S25	10	(lifo) and (stack) and (encryption) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:14
S26	13	(lifo) and (stack) and (encrypt$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:27
S27	13	(lifo) and (stack) and (encrypt$4) and (memory) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:28
S28	14	(lifo) and (encrypt$4) and (memory) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:29
S29	295	(stack) and (encrypt$4) and (storage) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:30
S30	10	(lifo) and (stack) and (encrypt$4) and (storage) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:41
S31	8	(lifo) and (stack) and (encrypt$4) and (storage) and (("370"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:51
S32	12	(tcp/ip) and (lifo) and (stack) and (encrypt$4) and (storage)	US-PGPUB; USPAT	OR	ON	2002/05/13 15:55
S33	541	(TCP) and stack and (("709"/$). CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 16:04
S34	118	encrypt$4 and storag$4 and ((TCP) and stack and (("709"/$).CCLS.))	US-PGPUB; USPAT	OR	ON	2002/05/13 16:21
S35	8	corrupt$4 and detect$4 and (encrypt$4 and storag$4 and ((TCP) and stack and (("709"/$).CCLS.)))	US-PGPUB; USPAT	OR	ON	2002/05/13 16:06
S36	13966	information and encrypt$4	US-PGPUB; USPAT	OR	ON	2002/05/13 16:22
S37	25	information and encrypt$4 and storag$4 and lifo and stack	US-PGPUB; USPAT	OR	ON	2002/05/13 16:26
S38	6	(information same encrypt$4) and storag$4 and lifo and stack and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 16:28
S39	80	(information same encrypt$4) and storag$4 and stack and (push$4 pop$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 16:29

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S40	5	(information same encrypt$4) and storag$4 and stack and (push$4 pop$4) and (lifo) and (("709"/$). CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 16:41
S41	379	(storag$4 same stack) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 16:41
S42	1	(storag$4 same stack) and encrypt$4 and (memory same corrupt$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 16:44
S43	54	(storag$4 same stack) and encrypt$4 and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/13 16:44
S44	7595	("712").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 10:05
S45	15643	("709").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 10:06
S46	31053	("370").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 10:06
S47	0	(lifo or lifos) and ((push$4 or pop$5) adj3 operation$4) and (memory same corrupt$4) and (encrypt$4) and (overflow or underflow)	US-PGPUB; USPAT	OR	ON	2002/05/15 10:17
S48	0	(lifo) and ((push$4 or pop$5) adj3 operation$4) and (memory same corrupt$4) and (encrypt$4)	US-PGPUB; USPAT	OR	ON	2002/05/15 10:20
S49	0	(lifo) and (push$4 or pop$5) and (memory same corrupt$4) and (encrypt$4)	US-PGPUB; USPAT	OR	ON	2002/05/15 10:22
S50	47	(stack) and (push$4 or pop$5) and (memory same corrupt$4) and (encrypt$4)	US-PGPUB; USPAT	OR	ON	2002/05/15 13:52
S51	55	(stack) and (push$4 or pop$5) and (memory same corrupt$4) and (scrambl$4)	US-PGPUB; USPAT	OR	ON	2002/05/15 15:29
S52	6	(stack) and (push$4 or pop$5) and (memory same corrupt$4) and (scrambl$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/15 13:07
S53	0	(stack) and (push$4 or pop$5) and (memory same corrupt$4) and (scrambl$4) and (("712"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/15 13:09
S54	11	(stack) and (push$4 or pop$5) and (memory same corrupt$4) and (scrambl$4) and (("370"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/15 13:22

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S55	1	("5537540").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 13:22
S56	183	(stack) and (push$4 or pop$5) and (memory) and (corrupt$4) and (encrypt$4) and (detect$4)	US-PGPUB; USPAT	OR	ON	2002/05/15 13:58
S57	23	(stack) and (push$4 or pop$5) and (memory) and (corrupt$4) and (encrypt$4) and (detect$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/15 14:17
S58	7	(stack) and (deviat$4) and (task) and (memory) and (corrupt$4) and (encrypt$4) and (detect$4) and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/15 14:22
S59	3	(lifo) and (deviat$4) and (task) and (memory) and (corrupt$4) and (encrypt$4) and (detect$4)	US-PGPUB; USPAT	OR	ON	2002/05/15 14:26
S60	4	(lifo) and (task) and (memory) and (corrupt$4) and (encrypt$4) and (detect$4)	US-PGPUB; USPAT	OR	ON	2002/05/15 14:39
S61	1	("6098112").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 16:19
S62	1560	ssl	US-PGPUB; USPAT	OR	ON	2002/05/15 14:53
S63	307	ssl and (("709"/$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/05/15 14:53
S64	71	ssl and (("709"/$).CCLS.) and stack	US-PGPUB; USPAT	OR	ON	2002/05/15 14:53
S65	61	ssl and (("709"/$).CCLS.) and stack and memory	US-PGPUB; USPAT	OR	ON	2002/05/15 14:55
S66	271	(stack) and (push$4 or pop$5) and (memory same corrupt$4) and (check$4)	US-PGPUB; USPAT	OR	ON	2002/05/15 15:32
S67	32	(stack) and (push$4 or pop$5) and (memory same corrupt$4) and (check same sum)	US-PGPUB; USPAT	OR	ON	2002/05/15 16:01
S68	70	(stack) and (push$4 or pop$5) and (data same corrupt$4) and (check same sum)	US-PGPUB; USPAT	OR	ON	2002/05/15 16:33
S69	0	("60981125815707").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 16:20
S70	1	("5815707").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 16:24

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S71	1	("6098112").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/05/15 16:24
S72	110770	tcp/ip protocol	US-PGPUB; USPAT	OR	ON	2002/05/15 16:34
S73	0	(dectect$4 same corrupt$4) and insert$4 and (tcp/ip protocol)	US-PGPUB; USPAT	OR	ON	2002/05/15 16:35
S74	0	(dectect$4 same corrupt$4) and (tcp/ip protocol)	US-PGPUB; USPAT	OR	ON	2002/05/15 16:35
S75	801	(detect$4 same corrupt$4) and insert$4 and (tcp/ip protocol)	US-PGPUB; USPAT	OR	ON	2002/05/15 16:37
S76	280	(push$4 pop$5) and storag$4 and ((detect$4 same corrupt$4) and insert$4 and (tcp/ip protocol))	US-PGPUB; USPAT	OR	ON	2002/05/15 16:40
S77	111	inspect$4 and data and memory and ((push$4 pop$5) and storag$4 and ((detect$4 same corrupt$4) and insert$4 and (tcp/ip protocol)))	US-PGPUB; USPAT	OR	ON	2002/05/15 16:43
S78	73	stack and (inspect$4 and data and memory and ((push$4 pop$5) and storag$4 and ((detect$4 same corrupt$4) and insert$4 and (tcp/ip protocol))))	US-PGPUB; USPAT	OR	ON	2002/05/16 09:25
S79	110	stack and ((overflow or underflow) same prevent$4) and (encrypt$4 or scrambl$4)	US-PGPUB; USPAT	OR	ON	2002/05/16 09:27
S80	11	stack and ((overflow or underflow) same prevent$4) and (encrypt$4 or scrambl$4) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2002/05/16 15:50
S81	27	stack and ((overflow or underflow) same prevent$4) and (encrypt$4 or scrambl$4) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2002/05/16 10:02
S82	25	stack and ((overflow or underflow) same prevent$4) and (encrypt$4 or scrambl$4) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2002/05/16 10:04
S83	45	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and (encrypt$4 or scrambl$4)	US-PGPUB; USPAT	OR	ON	2002/05/16 15:57
S84	49	((top or bottom) adj3 stack) and ((overflow or underflow) same prevent$4) and (encrypt$4 or scrambl$4)	US-PGPUB; USPAT	OR	ON	2002/05/16 16:01
S85	45	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and (encrypt$4 or scrambl$4)	US-PGPUB; USPAT	OR	ON	2003/03/19 12:52

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S86	161	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4)	US-PGPUB; USPAT	OR	ON	2003/03/19 12:53
S87	8	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and "714"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 12:55
S88	7	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 12:56
S89	16	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 13:23
S90	1	"5701508".PN.	USPAT	OR	OFF	2003/03/19 13:02
S91	1	"5696955".PN.	USPAT	OR	OFF	2003/03/19 13:02
S92	1	"5687336".PN.	USPAT	OR	OFF	2003/03/19 13:03
S93	1	"5651125".PN.	USPAT	OR	OFF	2003/03/19 13:10
S94	1	"5651125".PN.	USPAT	OR	OFF	2003/03/19 13:11
S95	1	"5649225".PN.	USPAT	OR	OFF	2003/03/19 13:11
S96	1	"5560035".PN.	USPAT	OR	OFF	2003/03/19 13:11
S97	1	"5522051".PN.	USPAT	OR	OFF	2003/03/19 13:12
S98	1	"5546554".PN.	USPAT	OR	OFF	2003/03/19 13:15
S99	1	"5560035".PN.	USPAT	OR	OFF	2003/03/19 13:15
S100	1	"5127098".PN.	USPAT	OR	OFF	2003/03/19 13:15
S101	1	"5127098".PN.	USPAT	OR	OFF	2003/03/19 13:17
S102	1	"5095457".PN.	USPAT	OR	OFF	2003/03/19 13:17
S103	1	"5187679".PN.	USPAT	OR	OFF	2003/03/19 13:17
S104	1	"5241635".PN.	USPAT	OR	OFF	2003/03/19 13:17
S105	1	"5241635".PN.	USPAT	OR	OFF	2003/03/19 13:21
S106	1	"5241635".PN.	USPAT	OR	OFF	2003/03/19 13:21
S107	1	"5267350".PN.	USPAT	OR	OFF	2003/03/19 13:21
S108	1	"5367650".PN.	USPAT	OR	OFF	2003/03/19 13:21
S109	1	"5467473".PN.	USPAT	OR	OFF	2003/03/19 13:21

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S110	1	"5481719".PN.	USPAT	OR	OFF	2003/03/19 13:22
S111	1	"5493687".PN.	USPAT	OR	OFF	2003/03/19 13:22
S112	1	"5499352".PN.	USPAT	OR	OFF	2003/03/19 13:22
S113	1	"5507000".PN.	USPAT	OR	OFF	2003/03/19 13:22
S114	1	"5522051".PN.	USPAT	OR	OFF	2003/03/19 13:23
S115	1	"5546554".PN.	USPAT	OR	OFF	2003/03/19 13:23
S116	52	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and (tag$3 or guard$3)	US-PGPUB; USPAT	OR	ON	2003/03/19 13:40
S117	1	"5784553".PN.	USPAT	OR	OFF	2003/03/19 13:32
S118	1	"5687336".PN.	USPAT	OR	OFF	2003/03/19 13:33
S119	1	"5636362".PN.	USPAT	OR	OFF	2003/03/19 13:34
S120	1	"5634027".PN.	USPAT	OR	OFF	2003/03/19 13:34
S121	1	"5603006".PN.	USPAT	OR	OFF	2003/03/19 13:35
S122	1	"5603006".PN.	USPAT	OR	OFF	2003/03/19 13:35
S123	1	"5535350".PN.	USPAT	OR	OFF	2003/03/19 13:35
S124	1	"5485572".PN.	USPAT	OR	OFF	2003/03/19 13:36
S125	1	"5157777".PN.	USPAT	OR	OFF	2003/03/19 13:37
S126	1	"5940859".PN.	USPAT	OR	OFF	2003/03/19 13:40
S127	156	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and (tag$3 or guard$3 or separat$3)	US-PGPUB; USPAT	OR	ON	2003/03/19 13:41
S128	147	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and (separat$3)	US-PGPUB; USPAT	OR	ON	2003/03/19 13:41

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S129	82	((top or bottom) adj stack) and ((overflow or underflow) same prevent$4) and ((bit or tag$3) near5 separat$3)	US-PGPUB; USPAT	OR	ON	2003/03/19 14:26
S130	222	((top or bottom or adjacent) adj stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3)	US-PGPUB; USPAT	OR	ON	2003/03/19 14:26
S131	12	((top or bottom or adjacent) adj stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 14:29
S132	9	((top or bottom or adjacent) adj stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 14:30
S133	115	((top or bottom or adjacent) adj stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 14:38
S134	201	(check$3 same stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3)	US-PGPUB; USPAT	OR	ON	2003/03/19 14:42
S135	18	(check$3 same stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 14:44
S136	93	(check$3 same stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 14:47
S137	8	(check$3 same stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3) and "717"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 14:48
S138	18	(check$3 same stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3) and "714"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 14:50
S139	13	(check$3 same stack) and ((overflow or underflow)) and ((bit or tag$3) near5 separat$3) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 14:50
S140	551	(stack near5 (over$flow or under$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 14:51
S141	50	(stack near5 (over$flow or under$flow)) and prevent$3 and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 15:07

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S142	27	((stack near5 (check$3 or verif$5)) near5 (over$flow or under$flow)) and prevent$3	US-PGPUB; USPAT	OR	ON	2003/03/19 15:17
S143	1	"5613063".PN.	USPAT	OR	OFF	2003/03/19 15:13
S144	1	"5355469".PN.	USPAT	OR	OFF	2003/03/19 15:14
S145	1	"5274817".PN.	USPAT	OR	OFF	2003/03/19 15:14
S146	1	"5132972".PN.	USPAT	OR	OFF	2003/03/19 15:15
S147	1	"4491912".PN.	USPAT	OR	OFF	2003/03/19 15:15
S148	50	(stack near5 (over$flow or under$flow)) and (insert$3 near5 (tag$3 or bit or fram$3 or guard$3))	US-PGPUB; USPAT	OR	ON	2003/03/19 15:38
S149	1	"5987611".PN.	USPAT	OR	OFF	2003/03/19 15:35
S150	1	"5974549".PN.	USPAT	OR	OFF	2003/03/19 15:35
S151	1	"5925126".PN.	USPAT	OR	OFF	2003/03/19 15:36
S152	1	"5909671".PN.	USPAT	OR	OFF	2003/03/19 15:36
S153	237	(stack with (insert$3 near5 (tag$3 or bit or fram$3 or guard$3)))	US-PGPUB; USPAT	OR	ON	2003/03/19 15:39
S154	33	(stack with (insert$3 near5 (tag$3 or bit or fram$3 or guard$3))) and (adjacent near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 15:40
S155	115	(stack with (insert$3 near5 (tag$3 or bit or fram$3 or guard$3))) and ((top or bottom or adjacent) near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:06
S156	28	((stack with (insert$3 near5 (tag$3 or bit or fram$3 or guard$3))) and ((top or bottom or adjacent) near3 stack)) and ("709"/$.ccls. or "370"/$.ccls. or "712"/$.ccls. or "714"/$.ccls. or "717"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:08
S157	199	(stack same (insert$3 near5 (tag$3 or bit or fram$3 or guard$3))) and ((top or bottom or adjacent) near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:27

EAST Search History

S158	41	((stack same (insert$3 near5 (tag$3 or bit or fram$3 or guard$3))) and ((top or bottom or adjacent) near3 stack)) and ("709"/$.ccls. or "370"/$.ccls. or "712"/$.ccls. or "714"/$.ccls. or "717"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:28
S159	254	(stack same (insert$3 near5 (tag$3 or bit or fram$3 or guard$3))) and ((top or bottom or adjacent or between) near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:29
S160	42	((stack same (insert$3 near5 (tag$3 or bit or fram$3 or guard$3))) and ((top or bottom or adjacent or between) near3 stack)) and ("709"/$.ccls. or "370"/$.ccls. or "712"/$.ccls. or "714"/$.ccls. or "717"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:32
S161	35804	(stack$3) and ((top or bottom or adjacent or between) near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:31
S162	403	(stack$3 near5 (tag$3 or guard$3)) and ((top or bottom or adjacent or between) near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:33
S163	179	((stack$3 near5 (tag$3 or guard$3)) and ((top or bottom or adjacent or between) near3 stack)) and ("709"/$.ccls. or "370"/$.ccls. or "712"/$.ccls. or "714"/$.ccls. or "717"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 16:33
S164	229	(stack$3 near5 (tag$3 or guard$3)) and ((top or bottom or adjacent or between) near3 stack) and insert$3	US-PGPUB; USPAT	OR	ON	2003/03/19 17:21
S165	108	((stack$3 near5 (tag$3 or guard$3)) and ((top or bottom or adjacent or between) near3 stack) and insert$3) and ("709"/$.ccls. or "370"/$.ccls. or "712"/$.ccls. or "714"/$.ccls. or "717"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 17:44
S166	1	"6317869".PN.	USPAT	OR	OFF	2003/03/19 16:42
S167	1	"6295640".PN.	USPAT	OR	OFF	2003/03/19 16:47
S168	1	"6101580".PN.	USPAT	OR	OFF	2003/03/19 16:47
S169	1	"6093216".PN.	USPAT	OR	OFF	2003/03/19 17:11
S170	1	"6047125".PN.	USPAT	OR	OFF	2003/03/19 17:14

EAST Search History

S171	1	"5963982".PN.	USPAT	OR	OFF	2003/03/19 17:14
S172	1	"5963982".PN.	USPAT	OR	OFF	2003/03/19 17:15
S173	1	"5920876".PN.	USPAT	OR	OFF	2003/03/19 17:15
S174	1	"5909579".PN.	USPAT	OR	OFF	2003/03/19 17:16
S175	1	"5909579".PN.	USPAT	OR	OFF	2003/03/19 17:18
S176	1	"5909579".PN.	USPAT	OR	OFF	2003/03/19 17:19
S177	1	"5903899".PN.	USPAT	OR	OFF	2003/03/19 17:19
S178	1	"5900001".PN.	USPAT	OR	OFF	2003/03/19 17:19
S179	1	"5878261".PN.	USPAT	OR	OFF	2003/03/19 17:19
S180	1	"5321834".PN.	USPAT	OR	OFF	2003/03/19 17:20
S181	1688	.(stack$3 near5 (tag$3 or guard$3 or frame)) and ((top or bottom or adjacent or between) near3 stack) and insert$3	US-PGPUB; USPAT	OR	ON	2003/03/19 17:44
S182	60	((stack$3 near5 (tag$3 or guard$3 or frame)) and ((top or bottom or adjacent or between) near3 stack) and insert$3) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 17:28
S183	0	((stack$3 near5 (tag$3 or guard$3 or frame)) and ((top or bottom or adjacent or between) near3 stack) and insert$3) and "395"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 17:28
S184	40	((stack$3 near5 (tag$3 or guard$3 or frame)) and ((top or bottom or adjacent or between) near3 stack) and insert$3) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 17:29
S185	72	((stack$3 near5 (tag$3 or guard$3 or frame)) and ((top or bottom or adjacent or between) near3 stack) and insert$3) and "717"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 17:29
S186	217	((insert$3 near5 (tag$3 or guard$3 or frame)) same stack) and ((top or bottom or adjacent or between) near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 17:43

EAST Search History

S187	155	((insert$3 near3 (tag$3 or guard$3 or frame)) same stack) and ((top or bottom or adjacent or between) near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 17:44
S188	98	((insert$3 adj3 (tag$3 or guard$3 or frame)) same stack) and ((top or bottom or adjacent or between) near3 stack)	US-PGPUB; USPAT	OR	ON	2003/03/19 17:53
S189	31	(((insert$3 near5 (tag$3 or guard$3 or frame)) same stack) and ((top or bottom or adjacent or between) near3 stack)) and ("709"/$.ccls. or "370"/$.ccls. or "712"/$.ccls. or "714"/$.ccls. or "717"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 17:46
S190	31	(((insert$3 near5 (tag$3 or guard$3 or frame)) same stack) and ((top or bottom or adjacent or between) near3 stack)) and ("709"/$.ccls. or "370"/$.ccls. or "712"/$.ccls. or "714"/$.ccls. or "717"/$.ccls. or "395"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 18:07
S191	2	((insert$3 adj3 (tag$3 or guard$3 or frame)) same stack) and ((top or bottom or adjacent or between) near3 stack) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 17:54
S192	2	((insert$3 adj3 (tag$3 or guard$3 or frame)) same stack) and (prevent$3 near5 (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 18:01
S193	2	((insert$3 adj5 (tag$3 or guard$3 or frame)) same stack) and (prevent$3 near5 (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 18:01
S194	2	((insert$3 adj5 (tag$3 or guard$3 or frame or bit)) same stack) and (prevent$3 near5 (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 18:02
S195	12	((insert$3 adj5 (tag$3 or guard$3 or frame or bit)) same stack) and ((prevent$3 or detect$3) near5 (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 18:05
S196	14	((insert$3 adj5 (tag$3 or guard$3 or frame or bit)) same stack) and ((prevent$3 or detect$3) same (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 18:06
S197	763	((insert$3 adj5 (tag$3 or guard$3 or frame or bit))) and ((prevent$3 or detect$3) same (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 18:10

EAST Search History

S198	340	(((insert$3 adj5 (tag$3 or guard$3 or frame or bit))) and ((prevent$3 or detect$3) same (under$flow or over$flow))) and ("709"/$.ccls. or "370"/$.ccls. or "712"/$.ccls. or "714"/$.ccls. or "717"/$.ccls. or "395"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 18:08
S199	58	(((insert$3 adj5 (tag$3 or guard$3 or frame or bit))) and ((prevent$3 or detect$3) same (under$flow or over$flow))) and ("709"/$.ccls. or "395"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/03/19 18:08
S200	2	((insert$3 adj5 (tag$3 or guard$3 or frame or bit))) and (((prevent$3 or detect$3) near5 stack) same (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 18:11
S201	124	(((prevent$3 or detect$3) near5 stack) same (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/19 18:11
S202	17	(((prevent$3 or detect$3) near5 stack) same (under$flow or over$flow)) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 18:22
S203	1	(((prevent$3 or detect$3) near5 stack) same (under$flow or over$flow)) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/19 18:41
S204	48	(((prevent$3 or detect$3) near5 stack) same (under$flow or over$flow)) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/20 09:13
S205	9	(((separat$3 or divid$3) near5 stack) same (under$flow or over$flow)) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/03/20 09:14
S206	11	((tag$3 near3 bit) same stack) and (insert$3) and (prevent$3 same (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/20 09:36
S207	35	((tag$3 near3 bit) same stack) and (insert$3) and ((detect$3) same (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/20 09:39
S208	57	(((tag$3 or separat$3 or guard or fram$3) near3 bit) same stack) and (insert$3) and ((detect$3) same (under$flow or over$flow))	US-PGPUB; USPAT	OR	ON	2003/03/20 09:40
S209	61	(detect$3 near4 corrupt$3) and (stack) and (insert$3 near5 information)	US-PGPUB; USPAT	OR	ON	2003/10/09 10:52
S210	104	(detect$3 near4 corrupt$3) and (pop$4 or push$3) and (insert$3 near5 information)	US-PGPUB; USPAT	OR	ON	2003/10/09 10:56

EAST Search History

S21 1	42	(detect$3 near4 corrupt$3) and (pop$4 and push$3) and (insert$3 near5 information)	US-PGPUB; USPAT	OR	ON	2003/10/09 10:53
S21 2	4	(corrupt$3 near5 stack) and (insert$3 near5 information)	US-PGPUB; USPAT	OR	ON	2003/10/09 10:59
S21 3	5	(corrupt$3 near5 stack) and (prevent$3 near5 (over$flow or under$flow))	US-PGPUB; USPAT	OR	ON	2003/10/09 11:03
S21 4	354	(prevent$3 near5 corrupt$3) and stack	US-PGPUB; USPAT	OR	ON	2003/10/09 11:03
S21 5	244	((prevent$3 near5 corrupt$3) and stack) and insert$3	US-PGPUB; USPAT	OR	ON	2003/10/09 11:09
S21 6	7	((prevent$3 near5 corrupt$3) and stack) and (insert$3 near5 information)	US-PGPUB; USPAT	OR	ON	2003/10/09 11:04
S21 7	12	(((prevent$3 near5 corrupt$3) and stack) and insert$3) and "717"/$. ccls.	US-PGPUB; USPAT	OR	ON	2003/10/09 11:19
S21 8	37	(((prevent$3 near5 corrupt$3) and stack) and insert$3) and "714"/$. ccls.	US-PGPUB; USPAT	OR	ON	2003/10/09 11:25
S21 9	42	(((prevent$3 near5 corrupt$3) and stack) and insert$3) and "713"/$. ccls.	US-PGPUB; USPAT	OR	ON	2003/10/09 11:26
S22 0	19	(((prevent$3 near5 corrupt$3) and stack) and insert$3) and "712"/$. ccls.	US-PGPUB; USPAT	OR	ON	2003/10/09 11:30
S22 1	20	(((prevent$3 near5 corrupt$3) and stack) and insert$3) and "707"/$. ccls.	US-PGPUB; USPAT	OR	ON	2003/10/09 11:33
S22 2	2256	(stack) and (prefix$3 or append$3) and (corrupt$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 11:34
S22 3	31	((stack) near5 (prefix$3 or append$3)) and (corrupt$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 11:40
S22 4	165	((add$3 or append$3) near3 prefix$3) and (stack)	US-PGPUB; USPAT	OR	ON	2003/10/09 11:55
S22 5	32	(((add$3 or append$3) near3 prefix$3) and (stack)) and corrupt$3	US-PGPUB; USPAT	OR	ON	2003/10/09 11:43
S22 6	0	((add$3 or append$3) near3 prefix$3) and (corrupt$3 near5 stack)	US-PGPUB; USPAT	OR	ON	2003/10/09 11:55
S22 7	29	(prevent$3 same (corrupt$3 near5 stack))	US-PGPUB; USPAT	OR	ON	2003/10/09 12:07
S22 8	1153	(stack near5 (encod$3 or decod$3))	US-PGPUB; USPAT	OR	ON	2003/10/09 12:07

EAST Search History

S229	8	(stack near5 (encod$3 or decod$3)) and (prevent$3 near5 corrupt$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 12:52
S230	1	"5915265".PN.	USPAT	OR	OFF	2003/10/09 12:47
S231	1	"5872909".PN.	USPAT	OR	OFF	2003/10/09 12:48
S232	1	"5784698".PN.	USPAT	OR	OFF	2003/10/09 12:48
S233	1	"5784698".PN.	USPAT	OR	OFF	2003/10/09 12:49
S234	1	"5675793".PN.	USPAT	OR	OFF	2003/10/09 12:49
S235	1	"5608866".PN.	USPAT	OR	OFF	2003/10/09 12:50
S236	1	"5533193".PN.	USPAT	OR	OFF	2003/10/09 12:51
S237	1	"5428766".PN.	USPAT	OR	OFF	2003/10/09 12:51
S238	4766	(stack) and (pop$3) and (push$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 12:53
S239	8389	(stack near5 ((pop$3) or (push$3)))	US-PGPUB; USPAT	OR	ON	2003/10/09 12:53
S240	574	(stack near5 ((pop$3) or (push$3))) and (prefix$3) and (append$3 or add$3 or insert$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 12:54
S241	73	(stack near5 ((pop$3) or (push$3))) and ((prefix$3) near5 (append$3 or add$3 or insert$3))	US-PGPUB; USPAT	OR	ON	2003/10/09 13:10
S242	782	(stack near5 ((pop$3) or (push$3))) and ((information) near5 (append$3 or add$3 or insert$3))	US-PGPUB; USPAT	OR	ON	2003/10/09 13:11
S243	1	(stack near5 ((pop$3) or (push$3))) and ((information) near5 (append$3 or add$3 or insert$3)) and (detect$3 near5 corrupt$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 13:27
S244	1	"5335344".PN.	USPAT	OR	OFF	2003/10/09 13:18
S245	1	"5274811".PN.	USPAT	OR	OFF	2003/10/09 13:23
S246	1	"5193180".PN.	USPAT	OR	OFF	2003/10/09 13:23
S247	143	(stack near5 ((pop$3) or (push$3))) and ((information) near5 (append$3 or add$3 or insert$3)) and (corrupt$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 13:28

EAST Search History

S248	66	(stack near5 ((pop$3) or (push$3))) and ((information) near5 (append$3 or add$3 or insert$3)) and (corrupt$3) and (under$flow$3 or over$flow$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 13:36
S249	808	(stack) and (prevent$3 near5 (under$flow$3 or over$flow$3))	US-PGPUB; USPAT	OR	ON	2003/10/09 13:37
S250	635	((stack) and (prevent$3 near5 (under$flow$3 or over$flow$3))) and (compar$3 or check$3)	US-PGPUB; USPAT	OR	ON	2003/10/09 13:37
S251	70	(((stack) and (prevent$3 near5 (under$flow$3 or over$flow$3))) and (compar$3 or check$3)) and (initial near5 state)	US-PGPUB; USPAT	OR	ON	2003/10/09 13:40
S252	0	(corrupt$3 same stack).ti.	US-PGPUB; USPAT	OR	ON	2003/10/09 13:40
S253	111	corrupt$3 near5 stack	US-PGPUB; USPAT	OR	ON	2003/10/09 13:41
S254	124	stack near5 corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:24
S255	1	(stack same corrupt$3).ti.	US-PGPUB; USPAT	OR	ON	2004/05/06 14:47
S256	1	"6526503".PN.	USPAT	OR	OFF	2004/05/06 14:48
S257	1	"6314514".PN.	USPAT	OR	OFF	2004/05/06 14:48
S258	1	"6289444".PN.	USPAT	OR	OFF	2004/05/06 14:49
S259	1	"6289444".PN.	USPAT	OR	OFF	2004/05/06 14:49
S260	1	"6185597".PN.	USPAT	OR	OFF	2004/05/06 14:49
S261	1	"6170054".PN.	USPAT	OR	OFF	2004/05/06 14:54
S262	1	"6088787".PN.	USPAT	OR	OFF	2004/05/06 14:54
S263	1	"6006323".PN.	USPAT	OR	OFF	2004/05/06 14:55
S264	1	"6006323".PN.	USPAT	OR	OFF	2004/05/06 15:03
S265	1	"5964868".PN.	USPAT	OR	OFF	2004/05/06 15:03
S266	1	"5950221".PN.	USPAT	OR	OFF	2004/05/06 15:03

EAST Search History

S267	1	"5634046".PN.	USPAT	OR	OFF	2004/05/06 15:04
S268	1	"5604877".PN.	USPAT	OR	OFF	2004/05/06 15:05
S269	1	"5574871".PN.	USPAT	OR	OFF	2004/05/06 15:05
S270	1	"5574871".PN.	USPAT	OR	OFF	2004/05/06 15:06
S271	1	"5511192".PN.	USPAT	OR	OFF	2004/05/06 15:06
S272	1	"5313634".PN.	USPAT	OR	OFF	2004/05/06 15:06
S273	1	"5142634".PN.	USPAT	OR	OFF	2004/05/06 15:07
S274	1	"5050067".PN.	USPAT	OR	OFF	2004/05/06 15:07
S275	1	"5021993".PN.	USPAT	OR	OFF	2004/05/06 15:07
S276	1	"6088787".PN.	USPAT	OR	OFF	2004/05/06 15:09
S277	1	"6006323".PN.	USPAT	OR	OFF	2004/05/06 15:09
S278	1	"5881305".PN.	USPAT	OR	OFF	2004/05/06 15:09
S279	1	"5640582".PN.	USPAT	OR	OFF	2004/05/06 15:10
S280	1	"5050067".PN.	USPAT	OR	OFF	2004/05/06 15:10
S281	1	"5519866".PN.	USPAT	OR	OFF	2004/05/06 15:12
S282	1	"4969091".PN.	USPAT	OR	OFF	2004/05/06 15:12
S283	1	"4524416".PN.	USPAT	OR	OFF	2004/05/06 15:12
S284	1	"5802380".PN.	USPAT	OR	OFF	2004/05/06 15:23
S285	1	"5778402".PN.	USPAT	OR	OFF	2004/05/06 15:23
S286	1	"5761689".PN.	USPAT	OR	OFF	2004/05/06 15:23
S287	1	"5717939".PN.	USPAT	OR	OFF	2004/05/06 15:23
S288	612	stack near5 encapsulat$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:27

EAST Search History

S289	22	(stack near5 encapsulat$3) and (pre$$determin$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:25
S290	6951	stack near5 insert$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:27
S291	275	(stack near5 insert$3) and (pre$$determin$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:27
S292	8	((stack near5 insert$3) and (pre$$determin$3 near3 value)) and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:29
S293	43	(stack near5 insert$3) and corrupt$3 and (top and bottom)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:29
S294	79	(stack near5 insert$3) and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:33
S295	1411	(stack) and (insert$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:38
S296	190	((stack) and (insert$3 near4 value)) and (corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:36
S297	104	((stack) and (insert$3 near4 value)) and (corrupt$3) and (compar$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:34
S298	74	((stack) and (insert$3 near4 value)) and (corrupt$3) and (compar$3 near3 value) and top and bottom	US-PGPUB; USPAT	OR	ON	2004/05/06 15:34
S299	24	((stack) and (insert$3 near4 value)) and (prevent$3 near4 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:36
S300	124	stack near5 corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:38
S301	757	stack near5 (over$flow$3 or under$flow$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:39
S302	40	(stack near5 (over$flow$3 or under$flow$3)) and (insert$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:43
S303	4773	stack near4 frame	US-PGPUB; USPAT	OR	ON	2004/05/06 15:43
S304	99	(stack near4 frame) and (insert$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:46
S305	4658	stack.ti.	US-PGPUB; USPAT	OR	ON	2004/05/06 15:46
S306	7	stack.ti. and corrupt$3 and (compar$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:47
S307	8	stack.ti. and (insert$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:51
S308	224	stack.ti. and (stor$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:52

EAST Search History

S309	130	stack.ti. and (stor$3 near3 value) and before and end$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:52
S310	13	stack.ti. and (stor$3 near3 value) and before and end$3 and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:54
S311	1	stack.ti. and (stor$3 near3 value) and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 15:54
S312	10	stack.ti. and (stor$3 near3 value) and (preced$3) and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 15:56
S313	86	stack.ti. and (stor$3 near3 value) and (insert$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:06
S314	11	stack.ti. and (over$flow$3 or under$3flow$3) and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 16:13
S315	33	stack.ti. and (over$flow$3 or under$3flow$3) and (compar$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:18
S316	0	stack.ti. and (over$flow$3 or under$3flow$3) and (insert$3 near5 index$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:19
S317	28	stack.ti. and (over$flow$3 or under$3flow$3) and (insert$3 and index$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:19
S318	62	stack.ti. and (over$flow$3 or under$3flow$3) and insert$3	US-PGPUB; USPAT	OR	ON	2004/05/06 16:21
S319	186	stack.ti. and (over$flow$3 or under$3flow$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:34
S320	514	stack near4 tag$4	US-PGPUB; USPAT	OR	ON	2004/05/06 16:37
S321	292	(stack near4 tag$4) and insert$3	US-PGPUB; USPAT	OR	ON	2004/05/06 16:35
S322	28	(stack near4 tag$4) and (insert$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:36
S323	161	(stack near4 tag$4) and (over$$flow$3 or under$$flow$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:36
S324	23	(stack near4 tag$4) and (over$$flow$3 or under$$flow$3) and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 16:36
S325	400	stack and (insert$3 near3 tag$4)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:38
S326	60	stack and (insert$3 near3 tag$4) and value and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 16:42
S327	1	(detect$3 near4 (stack adj3 corrupt$3))	US-PGPUB; USPAT	OR	ON	2004/05/06 16:43
S328	64	(detect$3 near4 (stack adj3 (over$$flow$3 or under$$flow$3)))	US-PGPUB; USPAT	OR	ON	2004/05/06 16:46

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S329	1585	stack near4 bound$3	US-PGPUB; USPAT	OR	ON	2004/05/06 16:47
S330	75	(stack near4 bound$3) and (compar$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:49
S331	478	(stack) and (start$3 near4 location) and (end$3 near4 location)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:50
S332	284	(stack) and (start$3 near4 location) and (end$3 near4 location) and (insert$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:50
S333	93	(stack) and (start$3 near4 location) and (end$3 near4 location) and (insert$3) and (compar$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:54
S334	32	(stack) and (start$3 near4 location) and (end$3 near4 location) and (insert$3) and (corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:55
S335	1	(stack near4 corrupt$3) and (start$3 near4 location) and (end$3 near4 location) and (insert$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 16:55
S336	4	(stack near4 corrupt$3) and ((start$3 near4 location) or (end$3 near4 location)) and (insert$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:02
S337	6162	stack near4 insert$3	US-PGPUB; USPAT	OR	ON	2004/05/06 17:04
S338	19	(stack near4 insert$3) and (verif$7 near4 address$3)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:07
S339	1622	(stack) and (tag$4 near4 information)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:07
S340	1136	(stack) and (tag$4 near4 information) and (bit)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:07
S341	297	(stack) and (tag$4 near4 information) and (bit) and (compar$3 near4 value)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:08
S342	34	(stack) and (tag$4 near4 information) and (compar$3 near4 ((tag$4 or bit) adj3 value))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:11
S343	1558	(stack) and (tag$4 near4 bit)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:11
S344	8	(stack near4 corrupt$3) and (tag$4 near4 bit)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:12
S345	12	(stack) and (insert$3 near4 (tag$4 near4 bit))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:19
S346	1564	(stack) and (insert$3 near4 (tag$4 or bit))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:21
S347	9	(stack near3 corrupt$3) and (insert$3 near4 (tag$4 or bit))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:21

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S348	1	(stack near3 corrupt$3) and (insert$3 near4 (value))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:21
S349	30	(stack) and (insert$3 near4 (tag$4 or bit)) and "718"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/06 17:24
S350	20	(stack) and (insert$3 near4 (tag$4 or bit)) and "719"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/06 17:25
S351	0	(stack) and (insert$3 near4 (tag$4 or bit)) and "395"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/06 17:26
S352	105	(stack) and (insert$3 near4 (tag$4 or bit)) and "711"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/06 17:33
S353	690	(stack) and (insert$3 near4 (tag$4 or bit))and boundary	US-PGPUB; USPAT	OR	ON	2004/05/06 17:33
S354	2	(stack) and (insert$3 near4 (boundary))and (tag$4 near4 bit)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:35
S355	40	(stack) and (insert$3 near4 (boundary))and (tag$4 or bit)	US-PGPUB; USPAT	OR	ON	2004/05/06 17:38
S356	1	(stack near3 (tag$4 or bit)) and (insert$3 near4 (boundary))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:39
S357	45	(stack near3 (tag$4 or bit)) and (insert$3 near4 (frame))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:43
S358	86	(stack near3 (frame)) and (insert$3 near4 (tag$4 or bit))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:49
S359	281	(stack near3 (top or bottom)) and (insert$3 near4 (tag$4 or bit))	US-PGPUB; USPAT	OR	ON	2004/05/06 17:49
S360	30	(stack near3 (top or bottom)) and (insert$3 near4 (tag$4 or bit)) and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/06 17:51
S361	30	(stack near3 (top or bottom)) and (insert$3 near4 (tag$4 or bit)) and "711"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/06 17:58
S362	114	(stack near3 (top or bottom)) and (insert$3 near4 (header))	US-PGPUB; USPAT	OR	ON	2004/05/06 18:00
S363	23	(stack near3 (header)) and (insert$3 near4 (tag$4 or bit))	US-PGPUB; USPAT	OR	ON	2004/05/06 18:01
S364	14	(stack near3 (insert$3 adj4 header))	US-PGPUB; USPAT	OR	ON	2004/05/06 18:01
S365	13	((top or bottom) adj stack) and (guard near3 frame)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:01
S366	5203	((top or bottom) adj stack) and (frame)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:01
S367	179	((top or bottom) adj stack) and (insert$3 near3 frame)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:04
S368	0	((top or bottom) adj stack) and (insert$3 near3 frame) and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:02

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S369	12	((top or bottom) adj stack) and (insert$3 near3 frame) and (detect$3 and corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:03
S370	12	((top or bottom) adj stack) and (guard$band)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:03
S371	0	((top or bottom) adj stack) and (insert$3 near3 frame) and (protect$3 near4 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:04
S372	12	((top or bottom) adj stack) and (insert$3 near3 frame) and (corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:05
S373	1	((top or bottom) adj stack) and (insert$3 near3 frame) and ("711"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:06
S374	0	((top or bottom) adj stack) and (insert$3 near3 frame) and ("718"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:07
S375	0	((top or bottom) adj stack) and (insert$3 near3 frame) and ("719"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:07
S376	2	((top or bottom) adj stack) and (insert$3 near3 frame) and ("709"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:08
S377	0	((top or bottom) adj stack) and (insert$3 near3 frame) and ("395"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:08
S378	39	((top or bottom) adj stack) and (insert$3 near3 frame) and (bit)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:14
S379	105	((top or bottom) adj stack) and (insert$3 near3 bit)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:16
S380	30	((top or bottom) adj stack) and (prevent$3 near3 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:17
S381	3	((top or bottom) adj stack) and (detect$3 near3 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:19
S382	54	((top or bottom) adj stack) and (append$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:19
S383	389	((top or bottom) adj stack) and (memory adj3 management)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:41
S384	68	((top or bottom) adj stack) and (memory adj3 management) and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/07 16:43
S385	534	stack near3 management	US-PGPUB; USPAT	OR	ON	2004/05/07 16:44
S386	3	(stack near3 management) and (detect$3 near3 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:44

EAST Search History

S387	48	(stack near3 management) and ((insert$3 or add$3) near3 bit)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:45
S388	81	(stack near3 management) and (compar$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/07 16:54
S389	35	(stack near3 management) and (start$3 adj3 address$3) and corrupt$3	US-PGPUB; USPAT	OR	ON	2004/05/07 16:54
S390	83	(stack near3 management) and (start$3 adj3 address$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 17:19
S391	1066	((top or bottom) near3 stack) and (start$3 near3 address$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 17:20
S392	174	((top or bottom) near3 stack) and (start$3 near3 address$3) and "711"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/07 17:20
S393	53	((top or bottom) near3 stack) and (start$3 near3 address$3) and (insert$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/07 17:22
S394	624	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3 or under$$flow$3 or over$$flow$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 17:22
S395	88	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3 or under$$flow$3 or over$$flow$3) and "711"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/07 17:25
S396	236	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3 or under$$flow$3 or over$$flow$3) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/07 17:25
S397	20	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3 or under$$flow$3 or over$$flow$3) and (insert$3 near3 bit) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/07 17:27
S398	114	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3 or under$$flow$3 or over$$flow$3) and (frame) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/07 17:27
S399	24	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3) and "712"/$.ccls.	US-PGPUB; USPAT	OR	ON	2004/05/07 17:28
S400	67	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3) and (compar$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/07 17:29

EAST Search History

S401	3	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3) and (insert$3 near3 header)	US-PGPUB; USPAT	OR	ON	2004/05/07 17:35
S402	67	((top or bottom) near3 stack) and (start$3 near3 address$3) and (corrupt$3) and (header)	US-PGPUB; USPAT	OR	ON	2004/05/07 18:07
S403	324	((top or bottom) near3 stack) and (start$3 near3 address$3) and (compar$3 near3 value)	US-PGPUB; USPAT	OR	ON	2004/05/07 18:08
S404	1	((top or bottom) near3 stack) and (start$3 near3 address$3) and (compar$3 near3 value) and (determin$3 near4 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 18:08
S405	0	((top or bottom) near3 stack) and (start$3 near3 address$3) and (compar$3 near3 address$3) and (determin$3 near4 corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 18:08
S406	0	((top or bottom) near3 stack) and (start$3 near3 address$3) and (compar$3 near3 value) and (dcorrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 18:09
S407	67	((top or bottom) near3 stack) and (start$3 near3 address$3) and (compar$3 near3 value) and (corrupt$3)	US-PGPUB; USPAT	OR	ON	2004/05/07 19:34
S408	4	(("6185597") or ("6006323") or ("5890181") or ("5949973")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/05/07 19:34
S409	1	("6513110").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/05/07 20:08
S420	1	("6385208").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/24 16:14
S421	0	(kim adj2 huynh).xa.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/24 16:15
S422	16	(dustin).xa.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/24 16:17
S423	1	(tammy near3 nguyen).xa.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/24 16:17
S424	1	("5926832").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/01 15:26

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S425	1	("6513110").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/01 15:58
S426	1	"6336212".PN.	USPAT; USOCR	OR	ON	2004/12/01 15:32
S427	1	"5623628".PN.	USPAT; USOCR	OR	ON	2004/12/01 15:33
S428	1	"5317720".PN.	USPAT; USOCR	OR	ON	2004/12/01 15:33
S429	1	"5247648".PN.	USPAT; USOCR	OR	ON	2004/12/01 15:34
S430	1	"6336212".PN.	USPAT; USOCR	OR	ON	2004/12/01 15:34
S431	1	"6058420".PN.	USPAT; USOCR	OR	ON	2004/12/01 15:34
S432	1	"5790844".PN.	USPAT; USOCR	OR	ON	2004/12/01 15:35
S433	1	"6336212".PN.	USPAT; USOCR	OR	ON	2004/12/01 15:48
S434	2	(("5832205") or ("6714904")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/01 16:30
S435	1	"6058420".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:15
S436	1	"5475852".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:15
S437	1	"5414853".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:16
S438	1	"5613083".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:19
S439	1	"6463582".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:20
S440	1	"6356615".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:21
S441	1	"6351844".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:21
S442	1	"6052708".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:22
S443	1	"6031992".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:25
S444	1	"5832205".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:25
S445	1	"5790825".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:25

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S446	1	"5790625".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:26
S447	1	"5751982".PN.	USPAT; USOCR	OR	ON	2004/12/01 16:26
S448	1	("5519841").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/01 16:34
S449	1	("5931957").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/01 16:41
S450	1	("6148394").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/01 16:53
S451	1	("6463523").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/01 16:55
S452	1	("5625835").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/01 17:14
S453	693	(out$$order near5 instruction) and eliminat$3	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:15
S454	29	(out$$order near5 instruction) and eliminat$3 and (re$$execut$3 near5 (order$3 or sequen$3))	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:25
S455	233	(out$$order near5 instruction) and eliminat$3 and (in$$order near5 instruction)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:25
S456	79	(out$$order near5 instruction) and eliminat$3 and (in$$order near5 instruction) and (re$$execut$3)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:38
S457	24	(load$$store near4 instruction) and (eliminat$3 near3 instruction) and (re$$execut$3)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:47
S458	162	(load$$store near4 instruction) and (eliminat$3 near3 instruction) and except$3	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:47
S459	146	(load$$store near4 instruction) and (eliminat$3 near3 instruction) and exception	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:48
S460	17	(load$$store near4 instruction) and (eliminat$3 near3 instruction) and exception and interven$3	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:51
S461	17	(load$$store near4 instruction) and (eliminat$3 near3 instruction) and out$$order and interven$3	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 17:52

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S462	58	(load$$store near4 instruction) and (eliminat$3 near3 instruction) and out$$order	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:18
S463	219	(load$$store near4 instruction) and (check$3 near3 instruction) and out$$order	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:19
S464	175	(load$$store near4 instruction) and (check$3 near3 instruction) and out$$order and eliminat$3	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:19
S465	166	(load$$store near4 instruction) and (check$3 near3 instruction) and out$$order and eliminat$3 and exception	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:19
S466	30	(load$$store near4 instruction) and (check$3 near3 instruction) and out$$order and eliminat$3 and (exception near4 rais$3)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:21
S467	93	(load$$store near4 instruction) and (out$$order) and (original near4 sequence)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:22
S468	31	(load$$store near4 instruction) and (out$$order) and (original near4 sequence) and (eliminat$3 near5 instruct$3)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:29
S469	40	(load$$store near4 instruction) and (out$$order) and (original near4 sequence) and exception and in$$order	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:35
S470	153	(load$$store near4 instruction) and (eliminat$3 near5 instruction) and (re$$order$3)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:36
S471	72	(load$$store near4 instruction) and (eliminat$3 near5 instruction) and (re$$order$3) and out$$order	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:40
S472	46	(original near4 sequence) and (eliminat$3 near5 instruction) and (re$$order$3) and out$$order	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:50
S473	105	(original near4 sequence) and (reduc$3 near5 instruction) and (re$$order$3) and out$$order	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:51
S474	15	(original near4 sequence) and (reduc$3 near5 instruction) and (re$$order$3) and out$$order and (re$$execut$3 near4 instruction)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/01 18:53
S475	6	"6006323"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:31

EAST Search History

S476	1	"5881305".PN.	USPAT; USOCR	OR	ON	2005/10/21 16:29
S477	1	"5640582".PN.	USPAT; USOCR	OR	ON	2005/10/21 16:30
S478	1	"5050067".PN.	USPAT; USOCR	OR	ON	2005/10/21 16:30
S479	0	(detect$3 same stack same corrupt$3).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:31
S480	4	(detect$3 near4 stack near4 corrupt$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:42
S481	1	"6633974".PN.	USPAT; USOCR	OR	ON	2005/10/21 16:32
S482	1	"6157999".PN.	USPAT; USOCR	OR	ON	2005/10/21 16:33
S483	1	"5574927".PN.	USPAT; USOCR	OR	ON	2005/10/21 16:34
S484	1	(detect$3 near4 corrupt$3) and stack and (frame near4 guard)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:43
S485	81	(detect$3 near4 corrupt$3) and stack and (guard)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:43
S486	0	(detect$3 near4 corrupt$3) and stack and (guard) and (start$3 near4 location) and (end$3 near4 location)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:44
S487	25	(detect$3 near4 corrupt$3) and stack and (guard) and ((start$3 near4 location) or (end$3 near4 location))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:45
S488	5	(detect$3 near4 corrupt$3) and (stack near4 guard)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:46
S489	81	(detect$3 near4 corrupt$3) and (stack) and guard	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:47
S490	33	(detect$3 near4 corrupt$3) and (stack) and guard and (@ad<="19981125")	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:51
S491	13	(stack near4 corrupt$3) and detect$3 and guard	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:53
S492	9	(stack near4 corrupt$3) and detect$3 and marker	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:55

EAST Search History

S493	96	(detect$3 near4 corrupt$3) and stack and marker	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:22
S494	31	(detect$3 near4 corrupt$3) and stack and marker and (value near4 location)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 16:56
S495	6	(detect$3 same corrupt$3).ti. and stack	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:24
S496	43	(detect$3 same corrupt$3).ab. and stack	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:27
S497	605	(detect$3 near5 corrupt$3) and stack	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:28
S498	102	(detect$3 near5 corrupt$3) and stack and marker	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:30
S499	0	(detect$3 near5 corrupt$3) and stack and (insert$3 near4 marker)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:30
S500	4	(detect$3 near5 corrupt$3) and stack and (insert$3 near4 guard)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:31
S501	5	(detect$3 near5 corrupt$3) and stack.ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:32
S502	48	(detect$3 near5 corrupt$3) and stack.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:43
S503	7	(detect$3 near5 corrupt$3) and stack.clm. and (value near4 address$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:32
S504	5	(stack near4 corrupt$3) and append$3 and marker	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:44
S505	95	(stack near4 corrupt$3) and append$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:44
S506	7	(stack near4 corrupt$3) and append$3 and guard$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:46
S507	2	(stack near4 corrupt$3) and (detect$3 near4 location)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:47

EAST Search History

S508	11	(stack near4 corrupt$3) and (detect$3 near4 (over$$flow or under$$flow))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:48
S509	299	(stack near4 guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:48
S510	26	(stack near4 guard$3) and corrupt$3 and detect$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:51
S511	16	(stack near4 marker) and corrupt$3 and detect$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:55
S512	1	"6449625".PN.	USPAT; USOCR	OR	ON	2005/10/21 17:52
S513	1	"5903899".PN.	USPAT; USOCR	OR	ON	2005/10/21 17:52
S514	26	(stack) and corrupt$3 and detect$3 and (fram$3 near4 guard)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:56
S515	91	(stack) and corrupt$3 and detect$3 and (fram$3 near4 marker)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:59
S516	0	(stack near4 corrupt$3) and detect$3 and (fram$3 near4 marker)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:56
S517	0	(stack near10 corrupt$3) and detect$3 and (fram$3 near4 marker)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:56
S518	10	(stack and corrupt$3) and detect$3 and (fram$3 near4 marker) and (top near4 stack)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:57
S519	84	(stack) and corrupt$3 and detect$3 and (over$$flow and under$$flow) and (@ad<="19981121")	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 17:59
S520	68	(stack) and corrupt$3 and detect$3 and (over$$flow and under$$flow) and (@ad<="19981121") and insert$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:00
S521	68	(stack) and corrupt$3 and detect$3 and (over$$flow and under$$flow) and (@ad<="19981123") and insert$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:17
S522	3	"5890181"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:20
S523	1	"5802380".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:18

EAST Search History

S524	1	"5778402".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:18
S525	1	"5761689".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:19
S526	1	"5717939".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:19
S527	1	"5692184".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:19
S528	1	"5659747".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:19
S529	1	"5574905".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:20
S530	1	"5537526".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:20
S531	51138	stack.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:20
S532	42	stack.clm. and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:23
S533	23	stack.ab. and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:25
S534	3	(detect$3 near5 corrupt$3 near4 stack)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:25
S535	4	(detect$3 near5 corrupt$3 near10 stack)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:27
S536	7	(detect$3 near10 corrupt$3 near10 stack)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:28
S537	316	stack$3 and (insert$3 near4 guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:28
S538	10	stack$3 and (insert$3 near4 guard$3) and detect$3 and corrupt$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:29
S539	144	stack$3 and (insert$3 near4 check$3) and detect$3 and corrupt$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:29
S540	3	(stack$3 near4 corrupt$3) and (insert$3 near4 check$3) and detect$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:49
S541	1	"5655098".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:39

EAST Search History

S542	1	"5649225".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:39
S543	1	"5606682".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:40
S544	1	"5564118".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:41
S545	1	"5355459".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:41
S546	1	"5454087".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:41
S547	1	"5574871".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:42
S548	1	"5606682".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:42
S549	1	"5313634".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:42
S550	1	"5222220".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:42
S551	1	"5179673".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:48
S552	1	"5136697".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:48
S553	9	"5222220"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:51
S554	6392	(stack).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:51
S555	8	(stack same guard).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:52
S556	3	(stack same marker).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:53
S557	18	(stack same mark$3).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:54
S558	122	(stack).ti. and guard$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 18:55
S559	6	(stack).ti. and (frame near4 guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:00
S560	1	"5949973".PN.	USPAT; USOCR	OR	ON	2005/10/21 18:56

EAST Search History

S561	3	(stack).ti. and (variable near4 guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:00
S562	38	(stack) and (variable near4 guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:05
S563	27	(stack) and (variable near4 guard$3) and detect$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:02
S564	7	(stack) and (variable near4 guard$3) and detect$3 and corrupt$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:01
S565	299	(stack near4 guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:05
S566	74	(stack near4 guard$3) and variable	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:05
S567	58	(stack near4 guard$3) and variable and detect$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:06
S568	26	(stack near4 guard$3) and variable and detect$3 and corrupt$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:07
S569	110	(stack) and (guard$3 near4 code)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:07
S570	32	(stack) and (guard$3 near4 code) and corrupt$3 and detect$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:08
S571	0	(stack near5 corrupt$3) and (guard$3 near4 code)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:08
S572	3	(stack near5 detect$3) and (guard$3 near4 code)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 19:11
S573	12	(stack$$guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 08:52
S574	343	(stack near5 guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 08:52
S575	3	(stack near5 guard$3) and (preced$3 near4 (location or address$3))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 08:53

EAST Search History

S576	1272	(stack) and (preced$3 near4 (location or address$3))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 08:54
S577	24	(stack) and (preced$3 near4 (location or address$3)) and "713"/$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 08:57
S578	90	(stack) and (preced$3 near4 (location or address$3)) and (guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 08:57
S579	84	(stack) and (preced$3 near4 (location or address$3)) and (guard$3) and return$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 08:57
S580	57	(stack) and (preced$3 near4 (location or address$3)) and (guard$3) and (return$3 near4 (address$3 or location))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:03
S581	31	(stack near4 pointer) and (preced$3 near4 (location or address$3)) and (guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:03
S582	3	(stack near4 guard$3) and (preced$3 near4 (location or address$3))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:19
S583	299	(stack near4 guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:19
S584	6	(stack near4 guard$3) and (insert$3 near4 value)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:23
S585	17	(stack near4 guard$3) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:24
S586	57	(stack near4 guard$3) and (preced$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:25
S587	0	(stack near4 guard$3) and (preced$3) and (start$3 near4 location) and (end$3 near4 location)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:25
S588	0	(stack near4 guard$3) and (start$3 near4 location) and (end$3 near4 location)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:26
S589	4	(stack near4 guard$3) and (start$3 near4 address$3) and (end$3 near4 address$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:32
S590	1	"5058052".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:29
S591	1	"4920538".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:29

EAST Search History

S592	1	"4881228".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:30
S593	1	"4812967".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:30
S594	1	"4656604".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:30
S595	1	"4571677".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:31
S596	161	(stack) and guard$3 and (start$3 near4 address$3) and (end$3 near4 address$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:32
S597	10	(stack) and (code near4 guard$3) and (start$3 near4 address$3) and (end$3 near4 address$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:33
S598	31	(stack) and (guard$3) and (start$3 near4 address$3) and (end$3 near4 address$3) and (detect$3 near4 (over$flow or under$flow))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:35
S599	0	(stack) and (guard$3) and (start$3 near4 address$3) and (end$3 near4 address$3) and (detect$3 near4 (corrupt$3))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:35
S600	2	(stack near4 corrupt$3) and (guard$3) and (start$3 near4 address$3) and (end$3 near4 address$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:36
S601	10	(stack near4 (over$$flow or under$$flow)) and (guard$3) and (start$3 near4 address$3) and (end$3 near4 address$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:38
S602	56	(stack near4 (over$$flow or under$$flow)) and (guard$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:49
S603	1	"6412107".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:40
S604	1	"6412071".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:41
S605	1	"6185673".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:41
S606	1	"6101580".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:42
S607	1	"6014723".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:43
S608	1	"6014723".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:46

EAST Search History

S609	1	"5949973".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:46
S610	1	"5671332".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:47
S611	1	"5535329".PN.	USPAT; USOCR	OR	ON	2005/10/22 09:47
S612	813	(stack near4 (over$$flow or under$$flow))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:49
S613	54	detect$3 adj10 (stack near4 (over$$flow or under$$flow))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:50
S614	57	(stack near4 (over$$flow or under$$flow)) and (preced$3 near4 (location or address$3))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:52
S615	52	(stack near4 (over$$flow or under$$flow)) and (preced$3 near4 (location or address$3)) and detect$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:55
S616	0	(last$$in near4 first$$out) and (frame near4 guard)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:56
S617	769	(last$$in near4 first$$out)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:56
S618	25	(last$$in near4 first$$out) and guard$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:58
S619	53	(last$$in near4 first$$out) and over$flow and under$flow	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 09:58
S620	50	(last$$in near4 first$$out) and over$flow and under$flow and detect$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 10:00
S621	1	"6941473"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 10:04
S622	3	"5890181"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 10:04
S623	23	(stack near4 guard) and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:15

EAST Search History

S624	40	(stack same marker same boundary)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:15
S625	3	(stack same marker same boundary same corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:17
S626	1	"6449625".PN.	USPAT; USOCR	OR	ON	2006/07/18 16:15
S627	1	"5903899".PN.	USPAT; USOCR	OR	ON	2006/07/18 16:16
S628	12	(stack same marker same boundary same insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:19
S629	0	(stack same marker same boundary) and (detect$3 near5 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:19
S630	8	(stack same marker same boundary) and (corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:34
S631	175	(stack same boundary) and (corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:35
S632	0	(stack near10 boundary) and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:35
S633	25	(stack same boundary) and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:37
S634	0	(stack near10 marker) and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:38

EAST Search History

S635	2	(stack same marker) and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:38
S636	219	(stack near10 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:38
S637	6	(stack near10 corrupt$3) and (marker near5 boundary)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:39
S638	9	(stack near4 boundary near4 marker)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:41
S639	14	(stack near4 boundary near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:43
S640	24	(stack near4 boundary) and (pre$$determin$3 near4 bit)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:46
S641	3	(stack near4 marker) and (pre$$determin$3 near4 bit)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:46
S642	342	(stack near4 marker)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:48
S643	3	(stack near4 marker) and boundary and detect$3 and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:47
S644	3	(stack near4 marker) and boundary and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:47

EAST Search History

S645	16	(stack near4 marker) and detect$3 and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:48
S646	4	"5890181"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:48
S647	44	(stack near4 marker) and boundary	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:52
S648	2078	(stack near4 separat$3) and boundary	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:52
S649	48	(stack near4 guard$3) and boundary	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:52
S650	26	(stack near4 guard$3) and boundary and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:55
S651	16	stack and (code near4 guard$3) and boundary and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:56
S652	121	stack and (code near4 guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 16:56
S653	1	stack and (boundary near5 code near4 guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 17:04
S654	6	"5907709"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/18 17:08

EAST Search History

S655	5	(detect$3 near4 stack near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 08:49
S656	1	"6633974".PN.	USPAT; USOCR	OR	ON	2006/07/18 17:10
S657	1	"5574927".PN.	USPAT; USOCR	OR	ON	2006/07/18 17:10
S658	1	"6157999".PN.	USPAT; USOCR	OR	ON	2006/07/18 17:10
S659	11	(protect$3 near4 stack near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 08:50
S660	9	(protect$3 near4 stack near4 guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:24
S661	1	"5949973".PN.	USPAT; USOCR	OR	ON	2006/07/19 08:53
S662	3	(stack near4 guard$3) and canary	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:45
S663	1	"6412107".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:26
S664	1	"6412071".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:26
S665	1	"6185673".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:27
S666	1	"6101580".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:27
S667	1	"6014723".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:27
S668	1	"5949973".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:28
S669	1	"5671332".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:28
S670	1	"5535329".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:28

EAST Search History

S671	3	(stack near4 guard$3) and over$$flow and under$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:48
S672	1	"5408665".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:47
S673	1	"5335344".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:47
S674	1	"5193191".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:47
S675	1	"5193180".PN.	USPAT; USOCR	OR	ON	2006/07/19 09:47
S676	9	(stack same guard$3).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:51
S677	754	(stack near4 boundary)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:51
S678	32	(stack near4 boundary) and over$$flow and under$$flow and detect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:58
S679	1	(stack near4 boundary) and over$$flow and under$$flow and detect$3 and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:52
S680	302	(stack same boundary).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:58
S681	54	(stack same boundary).ab. and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 09:59
S682	10	(stack same boundary same insert$3).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:02

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S683	14	(stack near4 boundary near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:04
S684	5	(stack near4 protect$3) and (boundary near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:05
S685	3	(stack near4 protect$3) and (guard$3 near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:06
S686	3	(stack near4 over$$flow) and (guard$3 near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:07
S687	0	(stack near4 under$$flow) and (guard$3 near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:07
S688	7	(stack near4 secur$5) and (guard$3 near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:08
S689	12	(stack near4 secur$5) and (guard$3 near4 fram$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:09
S690	7	(stack near4 protect$3) and (guard$3 near4 fram$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:12
S691	27	(stack near4 protect$3) and (insert$3 near4 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:15
S692	1	(stack near4 corrupt$3) and (insert$3 near4 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:16

EAST Search History

S693	43	(stack near4 over$$flow) and (insert$3 near4 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:20
S694	19	(stack near4 over$$flow) and (insert$3 near4 value) and under$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:16
S695	166	(stack) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:21
S696	0	(stack near5 guard$3) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:21
S697	2	(stack near5 protect$3) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:35
S698	4	(stack near5 detect$3) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:36
S699	0	(stack near5 secur$5) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 10:57
S700	1	("20040123148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 10:56
S701	17	(stack near5 (pop$4 or push$3)) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 11:04
S702	0	(stack near5 (canary)) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 11:04

EAST Search History

S703	0	(stack and (canary)) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 11:04
S704	57	(stack and (guard$3)) and (buffer near4 over$$flow) and (buffer near4 under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 11:05
S705	2	(stack and (guard$3)) and (buffer near4 over$$flow) and (buffer near4 under$$flow) and (@ad<="19981123")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 11:06
S706	2	(stack) and (guard$3 same ((buffer near4 over$$flow) and (buffer near4 under$$flow)))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 11:08
S707	11	(stack) and (guard$3 same ((buffer near4 over$$flow) or (buffer near4 under$$flow)))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 11:14
S708	15	(stack near10 guard$3) and (prevent$3 same ((buffer near4 over$$flow) or (buffer near4 under$$flow)))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 12:58
S709	1	"6412107".PN.	USPAT; USOCR	OR	ON	2006/07/19 11:22
S710	1	"6412071".PN.	USPAT; USOCR	OR	ON	2006/07/19 11:22
S711	1	"6185673".PN.	USPAT; USOCR	OR	ON	2006/07/19 11:23
S712	1	"6101580".PN.	USPAT; USOCR	OR	ON	2006/07/19 11:23
S713	1	"6014723".PN.	USPAT; USOCR	OR	ON	2006/07/19 11:23
S714	1	"5949973".PN.	USPAT; USOCR	OR	ON	2006/07/19 11:23
S715	1	"5671332".PN.	USPAT; USOCR	OR	ON	2006/07/19 11:24
S716	1	"5535329".PN.	USPAT; USOCR	OR	ON	2006/07/19 11:24

EAST Search History

S717	31	(stack near10 protect$3) and (insert$3 near4 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:31
S718	4447	(stack near10 protect$3 near10 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:31
S719	92	(stack near10 protect$3 near10 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:31
S720	7	(stack near10 protect$3 near10 value) and over$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:33
S721	26	(stack near10 protect$3) and (check$3 near4 over$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:35
S722	19	(stack near10 protect$3) and (check$3 near4 over$$flow) and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:34
S723	616	(stack) and (check$3 near10 (under$$flow or over$$flow))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:35
S724	260	(stack) and (check$3 near10 (under$$flow or over$$flow)) and (compar$5 near4 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:35
S725	2	(stack) and (check$3 near10 (under$$flow or over$$flow)) and (compar$5 near4 value) and (guard$3 near4 frame)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:36
S726	56	(stack) and (check$3 near10 (under$$flow or over$$flow)) and (compar$5 near4 value) and (guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:36

EAST Search History

S727	56	(stack) and (check$3 near10 (under$$flow or over$$flow)) and (compar$5 near4 value) and (guard$3) and detect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:57
S728	193	(stack) and (insert$3 near4 guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:58
S729	7	(stack) and (insert$3 near4 guard$3 near4 fram$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:58
S730	3	(stack near4 management) and (guard$3 near4 fram$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 13:59
S731	55	(stack near4 management) and (guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:03
S732	8	(stack near4 management) and (guard$3) and over$$flow and under$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:00
S733	338	(stack near4 guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:04
S734	3	(stack near4 guard$3) and over$$flow and under$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:14
S735	587	(stack near4 detect$3) and (compar$3 near4 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:14
S736	40	(stack near4 detect$3) and (compar$3 near4 value) and (insert$3 near4 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:23

EAST Search History

S737	13	(stack near4 detect$3) and (protect$3 near4 fram$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:25
S738	59	(stack near4 memory) and (protect$3 near4 fram$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:25
S739	2	(stack near4 memory) and (protect$3 near4 fram$3) and (fix$3 near4 siz$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:26
S740	2	(stack near4 memory) and (protect$3 near4 guard$3) and (fix$3 near4 siz$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:26
S741	4	(stack near4 memory near5 protect$3) and (fix$3 near4 siz$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:31
S742	4	(stack near4 memory near5 guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:37
S743	1	"5606696".PN.	USPAT; USOCR	OR	ON	2006/07/19 14:35
S744	1	"5303378".PN.	USPAT; USOCR	OR	ON	2006/07/19 14:36
S745	1	"4742447".PN.	USPAT; USOCR	OR	ON	2006/07/19 14:37
S746	1	"4787031".PN.	USPAT; USOCR	OR	ON	2006/07/19 14:37
S747	6	(stack near4 memory) and (guard$3 near4 page)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:38
S748	8	(stack near4 memory) and (guard$3 near4 fram$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:39

EAST Search History

S749	24	(stack near4 memory) same guard$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:40
S750	3645	(stack near4 memory) and protect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:40
S751	52	(stack same memory).ti. and protect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 14:41
S752	34	(stack same memory).ti. and protect$3 and separat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:05
S753	1	"5949973".PN.	USPAT; USOCR	OR	ON	2006/07/19 14:43
S754	63	"5628016"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:00
S755	15	"5628016" and guard$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:01
S756	30	"5628016" and protect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:01
S757	1575	(stack same memory) and (additional near4 function)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:06
S758	686	(stack near5 memory) and (additional near4 function)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:06

EAST Search History

S759	1	(stack near5 memory) and (additional near4 function) and (insert$3 near4 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:06
S760	27	(stack near5 memory) and (insert$3 near4 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:51
S761	1	"5606696".PN.	USPAT; USOCR	OR	ON	2006/07/19 15:51
S762	15	"5950221"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:54
S763	186	(insert$3 near4 code) and (stack near4 based)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:55
S764	1	(insert$3 near4 code) and (stack near4 based) and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 15:56
S765	7	(insert$3 near4 code) and (stack near4 based) and (detect$3 near4 (over$flow or under$flow))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:01
S766	1	"20020170034".PN.	US-PGPUB	OR	ON	2006/07/19 15:59
S767	1	"6651171".PN.	USPAT; USOCR	OR	ON	2006/07/19 15:59
S768	1	"6578094".PN.	USPAT; USOCR	OR	ON	2006/07/19 15:59
S769	1	"6519702".PN.	USPAT; USOCR	OR	ON	2006/07/19 15:59
S770	1	"6438666".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:00
S771	1	"6346822".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:00
S772	1	"5615343".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:00
S773	1	"5454089".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:00

EAST Search History

S774	2	(insert$3 near4 bit) and (stack near4 based) and (detect$3 near4 (over$flow or under$flow))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:02
S775	10	(insert$3 near4 bit) and (stack near4 bottom) and (detect$3 near4 (over$flow or under$flow))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:03
S776	78	(insert$3 near4 bit) and (stack near4 bottom)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:05
S777	37	(insert$3 near4 bit) and (stack near4 bottom) and detect$3 and protect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:03
S778	19	(insert$3 near4 bit near5 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:10
S779	1	"6085307".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:06
S780	1	"6070010".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:06
S781	1	"5761491".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:07
S782	1	"5687336".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:07
S783	1	"5687336".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:07
S784	1	"5396624".PN.	USPAT; USOCR	OR	ON	2006/07/19 16:08
S785	138	(insert$3 near4 stack near4 base)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:10
S786	0	(insert$3 near4 stack near4 base) and (fix$3 near4 siz$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:10

EAST Search History

S787	72	(insert$3 near4 stack near4 base) and (fix$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:10
S788	8	(insert$3 near4 stack near4 base) and (fix$3) and siz$3 and detect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:11
S789	1	(insert$3 near4 stack near4 base) and (compar$3 near4 address$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:12
S790	2	(insert$3 near4 stack near4 base) and (compar$3 near4 value)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:23
S791	2	(stack near4 base) and (guard$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:24
S792	9	(stack near4 bottom) and (guard$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:25
S793	3	(stack near4 protect$3) and (guard$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:27
S794	4	(stack near4 insert$3) and (guard$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:28
S795	13	(stack) same (guard$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:29
S796	69	(stack) and (guard$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:35

EAST Search History

S797	3	(stack) and (guard$3 near4 memory) and (detect$3 near5 (over$$flow or under$$flow))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:30
S798	24	(stack) and (guard$3 near4 memory) and (detect$3 and protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:30
S799	12	(stackguard)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:39
S800	300	(stack near5 patch$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:39
S801	1	(stack near5 patch$3) and (detect$3 near4 (over$$flow or under$$flow))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:40
S802	0	(stack near5 patch$3) and (insert$3 near4 preced$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:40
S803	169	(stack near5 patch$3) and (insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:45
S804	2508	(stack) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:46
S805	69	(stack) and (insert$3 near4 code) and (preced$3 near4 location)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:50
S806	19	(stack near5 corrupt$3) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:52

EAST Search History

S807	47	(stack near5 protect$3) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:52
S808	23	(stack near5 protect$3) and (insert$3 near4 code) and preced$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:53
S809	97	(stack near5 detect$3) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:53
S810	7	(stack near5 detect$3) and (insert$3 near4 code) and overflow and underflow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:54
S811	5	(stack) and (insert$3 near4 code near5 guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:55
S812	11	(stack) and (insert$3 near4 code near5 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:57
S813	0	(stack) and (insert$3 near4 handler near5 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:57
S814	273	(stack) and (insert$3 near4 handler)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:57
S815	0	(stack near5 corrupt$3) and (insert$3 near4 handler)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:57
S816	3	(stack near5 protect$3) and (insert$3 near4 handler)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:58

EAST Search History

S817	0	(stack near5 guard$3) and (insert$3 near4 handler)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:58
S818	8	(stack near5 over$$flow) and (insert$3 near4 handler)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 16:59
S819	47	(stack near5 over$$flow) and (insert$3 near4 bit)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 17:00
S820	0	(stack near5 over$$flow) and (insert$3 near4 code near4 interrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 17:00
S821	13	(stack) and (insert$3 near4 code near4 interrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 17:51
S822	6	(stack) and (insert$3 near4 code near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 17:51
S823	60	(stack) and (insert$3 near4 code near4 detect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 17:57
S824	12	(stack near4 memory) and (insert$3 near4 code near4 detect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 17:53
S825	2	(stack near4 buffer$3) and (insert$3 near4 code near4 detect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 17:53
S826	66	(stack near5 insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:05

EAST Search History

S827	77	(stack near5 insert$3 near4 function)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:05
S828	3	(stack near5 insert$3 near4 function) and (preced$3 near4 locat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:05
S829	0	(stack near5 insert$3 near4 function) and (detect$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:06
S830	5	(stack near5 insert$3 near4 function) and (detect$3 and corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:08
S831	45	(stack near5 insert$3 near4 function) and (detect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:09
S832	4	(stack near5 insert$3 near4 function near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:10
S833	0	(stack near5 append$3 near4 function near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:10
S834	5	(stack near5 append$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:12
S835	261	(stack same (insert$3 near4 information))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:13
S836	26	(stack same (insert$3 near4 information) same detect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:21

EAST Search History

S837	1545	(prevent$3 near4 buffer$3 near4 over$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:22
S838	8	(prevent$3 near4 buffer$3 near4 over$$flow near5 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:23
S839	70	(prevent$3 near4 over$$flow near5 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:23
S840	2	(prevent$3 near4 over$$flow near5 stack) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:24
S841	4	(prevent$3 near4 over$$flow near5 stack) and (insert$3 near4 function)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/19 18:25
S842	21	(prevent$3 near4 over$$flow near5 stack) and (insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:38
S843	149	(stack near4 memory) and (bound$4 near4 check$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:39
S844	13	(stack near4 memory) and (bound$4 near4 check$3) and (prevent$3 near4 (under$$flow or over$$flow))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:44
S845	19	(stack near4 memory) and (bound$4 near4 check$3) and (prevent$3 near4 (corrupt$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:45
S846	38	(stack near4 memory) and (bound$4 near4 check$3) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:50

EAST Search History

S847	6	(stack near4 memory) and (bound$4 near4 check$3) and (inject$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:50
S848	12	(stack near4 memory) and (bound$4 near4 check$3) and (insert$3 near4 function)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:51
S849	19	(stack near4 memory) and (bound$4 near4 check$3) and (insert$3 near4 instruct$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:52
S850	5	(stack near4 buffer$3) and (bound$4 near4 check$3) and (insert$3 near4 instruct$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:52
S851	8	(stack near4 buffer$3) and (bound$4 near4 check$3) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:53
S852	16	(stack near4 buffer$3) and (bound$4 near4 check$3) and (insert$3) and over$$flow and under$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:55
S853	8	(stack near4 buffer$3) and (bound$4 near4 check$3) and (insert$3) and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 09:57
S854	26	(stack near4 memory) and (bound$4 near4 check$3) and (insert$3) and corrupt$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:04
S855	30	(stack near4 memory) and (bound$4 near4 check$3) and (insert$3) and over$$flow and under$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:05
S856	1	(bound$4 near4 check$3) and (insert$3 near4 code near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:06

EAST Search History

S857	2	(bound$4 near4 check$3) and (inject$3 near4 code near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:06
S858	2	(bound$4 near4 check$3) and (inject$3 near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:07
S859	4	(bound$4 near4 check$3) and (inject$3 near10 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:07
S860	79	(bound$4 near4 check$3) and (insert$3 near10 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:07
S861	16	(bound$4 near4 check$3) and (insert$3 near10 stack) and (prevent$3 near4 corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:08
S862	9	(bound$4 near4 check$3) and (insert$3 near10 stack) and (over$$flow and under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:10
S863	2	(bound$4 near4 check$3 near4 stack) and (insert$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:11
S864	0	(bound$4 near4 check$3 near4 stack) and (inject$3 near4 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:11
S865	5	(bound$4 near4 check$3 near4 stack) and (insert$3 near4 instruct$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:13
S866	2	(bound$4 near4 check$3 near4 stack) and (insert$3 near4 function)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:28

EAST Search History

S867	5	(bound$4 near4 check$3 near4 stack) and (guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:28
S868	35	(bound$4 near4 check$3 near10 stack) and (guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:30
S869	2	(bound$4 near4 check$3 near10 stack) and (guard$3 near5 frame)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:29
S870	0	(bound$4 near4 check$3) and (safe$$guard near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:31
S871	64	(bound$4 near4 check$3) and (safe$$guard and stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:31
S872	49	(bound$4 near4 check$3) and (safe$$guard and stack) and under$$flow and over$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:31
S873	3	(bound$4 near4 check$3) and (guard$3 near10 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:32
S874	0	(safe$$guard$3 near10 stack) and (insert$3 near5 code)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:33
S875	57	(safe$$guard$3 near10 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:33
S876	20	(safe$$guard$3 near10 stack) and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:34

EAST Search History

S877	298	(guard$3 near10 stack) and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:34
S878	12	(guard$3 near10 stack near10 function) and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:37
S879	17	(guard$3 near10 stack near10 code) and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:38
S880	2	(code$$guard$3 near5 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:38
S881	11	(code near5 guard$3 near5 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:39
S882	11	(frame near5 guard$3 near5 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:39
S883	2	(instruct$3 near5 guard$3 near5 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:40
S884	8	(guard$3 near4 frame) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:41
S885	35	(guard$3 near4 code) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:43
S886	21	(guard$3 near4 function) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:47

EAST Search History

S887	6	"5907709"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:53
S888	1	"5408665".PN.	USPAT; USOCR	OR	ON	2006/07/20 10:48
S889	1	"5335344".PN.	USPAT; USOCR	OR	ON	2006/07/20 10:48
S890	1	"5193191".PN.	USPAT; USOCR	OR	ON	2006/07/20 10:48
S891	50	(stack near5 bound$4 near4 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 14:19
S892	3	(stack near5 bound$4 near4 protect$3) and guard$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 10:54
S893	0	((first$$$last) near5 bound$4 near4 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 14:20
S894	1	((first near4 last) near5 bound$4 near4 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 14:20
S895	0	((first$$in near4 last$$out) near5 bound$4 near4 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 14:23
S896	0	((last$$in near4 first$$out) near5 bound$4 near4 protect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 14:23
S897	0	((last$$in near4 first$$out) near5 bound$4 near4 check$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 14:24

EAST Search History

S898	0	((lifo) near5 bound$4 near4 check$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 14:24
S899	6	((lifo) near5 bound$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 14:24
S900	0	((last$$in near4 first$$out) near5 bound$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:40
S901	8	(guard$3 near5 insert$3 near5 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:41
S902	0	(insert$3 near4 segregat$3) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:41
S903	248	(segregat$3) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:42
S904	0	(guard$3 near5 segregat$3) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:42
S905	0	(inject near4 segregat$3) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:42
S906	25	(segregat$3) and (memory near4 stack) and (over$$flow and under$$flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:52
S907	27	"5903899"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:51

EAST Search History

S908	9	"5903899" and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:51
S909	58	(segregat$3 near4 information) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:53
S910	2	(segregat$3 near4 information) and (memory near4 stack) and over$$flow and under$$flow	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 15:53
S911	46	(segregat$3 near4 information) and (memory near4 stack) and protect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 16:28
S912	1	"5584004".PN.	USPAT; USOCR	OR	ON	2006/07/20 15:55
S913	1	"5566321".PN.	USPAT; USOCR	OR	ON	2006/07/20 15:55
S914	1	"5561786".PN.	USPAT; USOCR	OR	ON	2006/07/20 15:56
S915	1	"5560003".PN.	USPAT; USOCR	OR	ON	2006/07/20 15:56
S916	1	"5535329".PN.	USPAT; USOCR	OR	ON	2006/07/20 15:56
S917	4	(delimit$3 near4 memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 16:29
S918	8	(delimit$3 near4 marker) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 16:30
S919	482	(marker) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 16:30

EAST Search History

S920	34	(marker near4 insert$3) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 16:59
S921	40	(marker near4 code) and (memory near4 stack)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 16:59
S922	33	(marker near4 code) and (memory near4 stack) and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 17:02
S923	14	(marker near4 instruct$3) and (memory near4 stack) and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 17:29
S924	8	(before near4 memory near4 stack near4 after)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 17:31
S925	7	(before near4 memory near4 stack near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 17:34
S926	0	(before near4 buffer$3 near4 stack near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 17:37
S927	22	(buffer$3 near4 stack near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 17:37
S928	4	(buffer$3 near4 stack near4 inject$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 17:37
S929	0	(before near4 buffer$3 near4 stack near4 inject$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/20 17:37

EAST Search History

S930	56	(instruct$3 near4 stack near4 insert$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/21 09:54
S931	2	(("6525768") or ("6720920")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/21 09:54
S932	3	(stack near4 guard) and over$flow$3 and under$flow$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:35
S933	146	(stack near4 check$3) and over$flow$3 and under$flow$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:35
S934	91	(stack near4 check$3) and over$flow$3 and under$flow$3 and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:36
S935	52	insert$3 and (stack near4 check$3) and over$flow$3 and under$flow$3 and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:45
S936	6	(insert$3 near5 stack) and (check$3 near4 (over$flow$3 or under$flow$3)) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:47
S937	6	(insert$3 near5 stack) and (check$3 near4 (corrupt$3 or over$flow$3 or under$flow$3)) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:50
S938	19	(insert$3 near5 stack) and (preced$3 near4 locat$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:51
S939	0	(insert$3 near5 stack) and (corrupt$3 and under$flow$3 and over$flow$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:51
S940	35	(insert$3 near5 stack) and (corrupt$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:55
S941	20	(insert$3 near5 stack) and (over$$flow$3 and under$$flow$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 16:58

EAST Search History

S942	18	(stack$$guard$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:01
S943	1	"5949973".PN.	USPAT; USOCR	OR	ON	2007/07/02 17:00
S944	51	(stack) and (guard$3 near4 variable)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:02
S945	11	(stack) and (guard$3 near4 variable) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:03
S946	49	(stack) and (guard$3 near4 value) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:03
S947	24	(stack) and (guard$3 near4 value) and (@ad<"19981212") and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:05
S948	50	(stack) and (guard$3 near4 bit) and (@ad<"19981212") and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:05
S949	1	(stack near5 insert$3) and (guard$3 near4 bit) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:05
S950	1	(stack) and (insert$3 near5 guard$3 near4 bit) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:06
S951	63	(stack) and (insert$3 near5 guard$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:08
S952	102	(stack near5 guard$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:08
S953	7	(stack near5 guard$3) and (@ad<"19981212") and (over$$flow$3 or under$$flow$3 or corrupt$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:14

EAST Search History

S954	24	"5950221"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:14
S955	2	"5950221" and stack and guard	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/02 17:14
S956	1	"5606696".PN.	USPAT; USOCR	OR	ON	2007/07/02 17:15
S957	1	"5303378".PN.	USPAT; USOCR	OR	ON	2007/07/02 17:15
S958	1	"4787031".PN.	USPAT; USOCR	OR	ON	2007/07/02 17:16
S959	1	"4742447".PN.	USPAT; USOCR	OR	ON	2007/07/02 17:16
S960	1	("5220220").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/18 23:20
S961	1	("5222220").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/18 23:33
S962	2	(("5222220") or ("5535329")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/18 23:52
S963	9	"5222220"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 23:58
S964	97	"5535329"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 23:58
S965	0	"5535329" and stack and corrupt$3 and guard$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 23:58
S966	6	"5535329" and guard$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 09:03
S967	34	(stack$3 near4 guard$3) and (allocat$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:08
S968	129	(stack$3 near4 protect$3) and (allocat$3 near4 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:08

EAST Search History

S969	73	(stack$3 near4 protect$3) and (allocat$3 near4 memory) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:08
S970	0	(stack$3 near4 protect$3) and (detect$3 near5 corrupt$3) and (allocat$3 near4 memory) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:09
S971	21	(stack$3 near4 protect$3) and (corrupt$3) and (allocat$3 near4 memory) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:22
S972	34	(stack$3 same protect$3 same corrupt$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:27
S973	794	(stack$3 same guard$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:44
S974	24	(stack$3 same guard$3 same memory) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:47
S975	1	(stack$3 near5 allocat$3) and (guard$3 near5 boundary) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:48
S976	2	(stack$3 near5 protect$3) and (insert$3 near5 boundary) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:48
S977	2	(stack$3 near5 memory) and (insert$3 near5 boundary) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:49
S978	638	(stack$3 near5 boundary) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:49
S979	29	(stack$3 near5 boundary near5 (protect$3 or guard$3 or insert$3)) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:51
S980	327	(stack$3 near5 allocat$3) and boundary and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:52

EAST Search History

S981	35	(stack$3 near5 allocat$3) and ((over$$flow or under$$flow) near4 boundary) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:52
S982	8	(stack$3 near5 allocat$3) and ((check$3) near4 boundary) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 09:58
S983	35	(stack$3 near5 memory) and ((check$3) near4 boundary) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:04
S984	6	(stack$3 near5 memory) and (guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:07
S985	7	(stack$3 near5 guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:10
S986	2	(memory near5 guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:10
S987	0	(memory near5 guard$3 near4 symbol) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:10
S988	23	(memory near5 guard$3) and stack and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:21
S989	49	(memory near4 insert$3 near5 stack) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:22
S990	2	(memory near4 insert$3 near5 stack) and guard$3 and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:22
S991	2	(memory near4 insert$3 near5 stack) and boundary and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:24
S992	13	(insert$3 near5 stack) and (memory near4 boundary) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:28

EAST Search History

S993	11	(insert$3 near5 stack) and (guard$3 near5 (fram$3 or memory or function or code)) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:33
S994	9841438	(insert$3 near5 stack).ab. (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:34
S995	789	(insert$3 near5 stack).ab. and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:34
S996	14	(insert$3 near5 stack same (protect$3 or guard$3)).ab. and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:35
S997	1	(boundary near5 stack same (protect$3 or guard$3)).ab. and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:44
S998	97	"5535329"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:44
S999	31	"5535329" and stack and restor$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:44
S1000	23	"5535329" and stack and restor$3 and insert$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:44
S1001	7	"5535329" and stack and restor$3 and insert$3 and dummy	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:46
S1002	12	"5535329" and dummy	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:48
S1003	95	(stack near4 dummy) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:48
S1004	5	(stack near4 dummy near4 memory) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:54

EAST Search History

S10 05	17	(stack near4 memory) and ((inject$3 or insert$3) near4 dummy) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:57
S10 06	292	(stack near4 memory) and (dummy) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:57
S10 07	107	(stack near4 memory) and (dummy) and boundary and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:58
S10 08	48	(stack near4 memory) and (dummy) and boundary and (over$flow or under$flow) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 11:32
S10 09	16	(stack near4 memory) and corrupt$3 and (dummy) and boundary and (over$flow or under$flow) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 10:59
S10 10	27	(stack near4 (over$$flow or under$$flow)) and (dummy) and boundary and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 11:35
S10 11	44	(stack near4 (over$$flow or under$$flow)) and (dummy) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 11:39
S10 12	13416	(stack).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 11:39
S10 13	298	(stack same memory).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 11:39
S10 14	1	(stack same memory same (over$flow or under$flow)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 11:40
S10 15	74	(stack same memory same (over$flow or under$flow)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 11:41
S10 16	52	(stack same memory same (over$flow or under$flow)).ab. and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 16:54

EAST Search History

S10 17	6	(stack near5 memory) and (guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 16:56
S10 18	33	(stack near5 memory) and (guard$3 near4 bit) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 16:59
S10 19	0	(stack near5 memory) and (guard$3 near4 pattern) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:00
S10 20	10	(stack near5 memory) and (guard$3 near4 function) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:01
S10 21	4	(stack near5 guard$3 near4 (function or frame)) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:09
S10 22	1	(stack near5 guard$3 near4 (module)) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:10
S10 23	0	(stack near5 guard$3 near4 (boundary)) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:10
S10 24	2	(memory near5 guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:11
S10 25	0	(queu$4 near5 guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:11
S10 26	0	(heap near5 guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:12
S10 27	0	(fifo near5 guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:12
S10 28	41	(fifo) and (guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:13

EAST Search History

S10 29	11	(fifo and stack) and (guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:12
S10 30	119	(stack) and (guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:13
S10 31	3	(stack) and over$$flow and under$$flow and (guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:15
S10 32	16	(stack) and corrupt$3 and (guard$3 near4 fram$3) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:16
S10 33	1	(stack) and corrupt$3 and (guard$3 near4 variable) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:17
S10 34	18	(stack) and corrupt$3 and (guard$3 near4 band) and (@ad<"19981212")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/19 17:17
S10 35	261	(stack near4 guard$3)	US-PGPUB; USPAT	OR	ON	2007/08/03 12:48
S10 36	2	(stack near4 guard$3).ab.	US-PGPUB; USPAT	OR	ON	2007/08/03 12:49
S10 37	24	(stack near4 guard$3).clm.	US-PGPUB; USPAT	OR	ON	2007/08/03 12:51
S10 38	544	(stack near4 protect$3).clm.	US-PGPUB; USPAT	OR	ON	2007/08/03 12:52
S10 39	20	(memory near4 stack near4 protect$3).clm.	US-PGPUB; USPAT	OR	ON	2007/08/03 13:00
S10 40	0	(stack same memory same corrupt$3 same over$flow same underflow)	US-PGPUB; USPAT	OR	ON	2007/08/03 13:00
S10 41	219	(stack same memory same corrupt$3)	US-PGPUB; USPAT	OR	ON	2007/08/03 13:00
S10 42	45	(stack same memory same corrupt$3 same over$flow)	US-PGPUB; USPAT	OR	ON	2007/08/03 13:05
S10 43	203	(stack near5 corrupt$3)	US-PGPUB; USPAT	OR	ON	2007/08/03 13:06
S10 44	36	(stack near5 corrupt$3 near4 prevent$3)	US-PGPUB; USPAT	OR	ON	2007/08/03 16:34

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1 IPSN/SPOTS posters: Harbor: software-based memory protection for sensor nodes

Ram Kumar, Eddie Kohler, Mani Srivastava
April 2007 **Proceedings of the 6th international conference on Information processing in sensor networks IPSN '07**
Publisher: ACM Press
Full text available: pdf(186.71 KB) Additional Information: full citation, abstract, references, index terms

Many sensor nodes contain resource constrained microcontrollers where user level applications, operating system components, and device drivers share a single address space with no form of hardware memory protection. Programming errors in one application can easily corrupt the state of the operating system or other applications. In this paper, we propose *Harbor*, a memory protection system that prevents many forms of memory corruption. We use software based fault isolation ("sandboxing") ...

Keywords: memory protection, software fault isolation

2 Short papers -- storage survivability: An electric fence for kernel buffers

Nikolai Joukov, Aditya Kashyap, Gopalan Sivathanu, Erez Zadok
November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**
Publisher: ACM Press
Full text available: pdf(184.35 KB) Additional Information: full citation, abstract, references, index terms

Improper access of data buffers is one of the most common errors in programs written in assembler, C, C++, and several other languages. Existing programs and OSs frequently access the data beyond the allocated buffers or access buffers that were already freed. Such programs and OSs may run for years before their problems can be detected because improper memory accesses frequently result in a silent data corruption. Not surprisingly, most computer worms exploit buffer overflow errors to gain comp ...

Keywords: buffer overflow, file systems, security

3 Selected writings on computing: a personal perspective

Edsger W. Dijkstra
January 1982 Book
Publisher: Springer-Verlag New York, Inc.

Additional Information: full citation, abstract, references, cited by, index terms

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

4 Efficient control flow quantification

Christoph Bockisch, Sebastian Kanthak, Michael Haupt, Matthew Arnold, Mira Mezini
October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**, Volume 41 Issue 10
Publisher: ACM Press
Full text available: pdf(245.83 KB) Additional Information: full citation, abstract, references, index terms

Aspect-oriented programming (AOP) is increasingly gaining in popularity. However, the focus of aspect-oriented language research has been mostly on language design issues; efficient implementation techniques have been less popular. As a result, the performance of certain AOP constructs is still poor. This is in particular true for constructs that rely on dynamic properties of the execution (e.g., the *cflow* construct).In this paper, we present efficient implementation techniques for *cfl* ...

Keywords: *aspect-oriented programming, control flow, virtual machine support*

5 Architectural support for software-based protection

Mihai Budiu, Úlfar Erlingsson, Martín Abadi
October 2006 **Proceedings of the 1st workshop on Architectural and system support for improving software dependability ASID '06**
Publisher: ACM Press
Full text available: pdf(642.62 KB) Additional Information: full citation, abstract, references, index terms

Control-Flow Integrity (CFI) is a property that guarantees program control flow cannot be subverted by a malicious adversary, even if the adversary has complete control of data memory. We have shown in prior work how CFI can be enforced by using inlined software guards that perform safety checks. The first part of this paper shows how modest Instruction Set Architecture (ISA) support can replace such guard code with single instructions.On the foundation of CFI we have implemented XFI: a protecti ...

Keywords: binary rewriting, control-flow graph, control-flow integrity, hardware support, memory protection, security, software fault isolation

6 Hardware and Binary Modification Support for Code Pointer Protection From Buffer Overflow

Nathan Tuck, Brad Calder, George Varghese
December 2004 **Proceedings of the 37th annual IEEE/ACM International Symposium on Microarchitecture MICRO 37**
Publisher: IEEE Computer Society
Full text available: pdf(294.15 KB) Additional Information: full citation, abstract, citings

Buffer overflow vulnerabilities are currently the most prevalent security vulnerability; they are responsible for over half of the CERT advisories issued in the last three years.Since many attacks exploit buffer overflow vulnerabilities, techniques that prevent buffer overflow attacks would greatly increase the difficulty of writing a new worm. This paper examines both software and hardware solutions for protecting code pointers from buffer

overflow attacks.We first evaluate the performance over ...

7 Sweeper: a lightweight end-to-end system for defending against fast worms

Joseph Tucek, Shan Lu, Chengdu Huang, Spiros Xanthos, Yuanyuan Zhou, James Newsome, David Brumley, Dawn Song

March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the 2007 conference on EuroSys EuroSys '07**, Volume 41 Issue 3

Publisher: ACM Press

Full text available: pdf(643.69 KB) Additional Information: full citation, abstract, references, index terms

The vulnerabilities that plague computers cause endless grief to users. Slammer compromised millions of hosts in minutes; a hit-list worm would take under a second. Recently proposed techniques respond better than manual approaches, but require expensive instrumentation, which limits deployment. Although spreading "antibodies" (e.g. signatures) ameliorates this limitation, hosts depending on antibodies are defenseless until inoculation; to the fastest hit-list worms this delay is crucial. Add ...

Keywords: VSEF, antibody, dynamic instrumentation, flash worm

8 Recovery Techniques for Database Systems

Joost S. M. Verhofstad

June 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(2.32 MB) Additional Information: full citation, references, citings, index terms

9 Randomized instruction set emulation

Elena Gabriela Barrantes, David H. Ackley, Stephanie Forrest, Darko Stefanović

February 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(374.44 KB) Additional Information: full citation, abstract, references, citings, index terms

Injecting binary code into a running program is a common form of attack. Most defenses employ a "guard the doors" approach, blocking known mechanisms of code injection. *Randomized instruction set emulation* (RISE) is a complementary method of defense, one that performs a hidden randomization of an application's machine code. If foreign binary code is injected into a program running under RISE, it will not be executable because it will not know the proper randomization. The pape ...

Keywords: Automated diversity, randomized instruction sets, software diversity

10 Enhancing software reliability with speculative threads

Jeffrey Oplinger, Monica S. Lam

October 2002 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , ACM SIGARCH Computer Architecture News , Proceedings of the 10th international conference on Architectural support for programming languages and operating systems ASPLOS-X**, Volume 37 , 36 , 30 Issue 10 , 5 , 5

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings

This paper advocates the use of a monitor-and-recover programming paradigm to enhance the reliability of software, and proposes an architectural design that allows

software and hardware to cooperate in making this paradigm more efficient and easier to program.We propose that programmers write monitoring functions assuming simple sequential execution semantics. Our architecture speeds up the computation by executing the monitoring functions speculatively in parallel with the main computation. For ...

11 Dynamic languages symposium chair's welcome: Hardware tansactional memory support for lightweight dynamic language evolution

Nicholas Riley, Craig Zilles

October 2006 **Companion to the 21st ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**

Publisher: ACM Press

Full text available: pdf(325.22 KB) Additional Information: full citation, abstract, references, index terms

Lightweight dynamic language runtimes have become popular in part because they simply integrate with a wide range of native code libraries and embedding applications. However, further development of these runtimes in the areas of concurrency, efficiency and safety is impeded by the desire to maintain their native code interfaces, even at a source level. Native extension modules' lack of thread safety is a significant barrier to dynamic languages' effective deployment on current and future multic ...

Keywords: Python, concurrency, dynamic languages, locking, safety, transactional memory

12 Efficient software-based fault isolation

Robert Wahbe, Steven Lucco, Thomas E. Anderson, Susan L. Graham

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5

Publisher: ACM Press

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, citings, index terms

One way to provide fault isolation among cooperating software modules is to place each in its own address space. However, for tightly-coupled modules, this solution incurs prohibitive context switch overhead. In this paper, we present a software approach to implementing fault isolation within a single address space.Our approach has two parts. First, we load the code and data for a distrusted module into its own *fault do main*, a logically separate portion of the application's address space ...

13 Intrusion detection: Countering code-injection attacks with instruction-set randomization

Gaurav S. Kc, Angelos D. Keromytis, Vassilis Prevelakis

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**

Publisher: ACM Press

Full text available: pdf(146.35 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe a new, general approach for safeguarding systems against *any* type of code-injection attack. We apply Kerckhoff's principle, by creating process-specific randomized instruction sets (*e.g.,* machine instructions) of the system executing potentially vulnerable software. An attacker who does not know the key to the randomization algorithm will inject code that is invalid for that randomized processor, causing a runtime exception. To determine the difficulty of integrating su ...

Keywords: buffer overflows, emulators, interpreters

14 Automatic detection and repair of errors in data structures

Brian Demsky, Martin Rinard
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11
Publisher: ACM Press
Full text available: pdf(340.56 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a system that accepts a specification of key data structure consistency constraints, then dynamically detects and repairs violations of these constraints, enabling the program to continue to execute productively even in the face of otherwise crippling errors. Our experience using our system indicates that the specifications are relatively easy to develop once one understands the data structures. Furthermore, for our set of benchmark applications, our system can effectively repair inco ...

Keywords: data structure invariants, data structure repair

15 The Google file system

Sanjay Ghemawat, Howard Gobioff, Shun-Tak Leung
October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5
Publisher: ACM Press
Full text available: pdf(275.54 KB) Additional Information: full citation, references, citings, index terms

Keywords: clustered storage, data storage, fault tolerance, scalability

16 Workshop on architectural support for security and anti-virus (WASSA): Using DISE to protect return addresses from attack

Marc L. Corliss, E. Christopher Lewis, Amir Roth
March 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(389.57 KB) Additional Information: full citation, abstract, references, index terms

Stack-smashing by buffer overflow is a common tactic used by viruses and worms to crash or hijack systems. Exploiting a bounds-unchecked copy into a stack buffer, an attacker can---by supplying a specially-crafted and unexpectedly long input---overwrite a stored return address and trigger the execution of code of her choosing. In this paper, we propose to protect code from this common form of attack using dynamic instruction stream editing (DISE), a previously proposed hardware mechanism that im ...

17 Speculative execution exception recovery using write-back suppression

Roger A. Bringmann, Scott A. Mahlke, Richard E. Hank, John C. Gyllenhaal, Wen-mei W. Hwu
December 1993 **Proceedings of the 26th annual international symposium on Microarchitecture MICRO 26**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings

Keywords: VLIW, exception detection, exception recovery, scheduling, speculative execution, superscalar

18 Dynamic and adaptive updates of non-quiescent subsystems in commodity operating system kernels

Kristis Makris, Kyung Dong Ryu
March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the 2007 conference on EuroSys EuroSys '07**, Volume 41 Issue 3
Publisher: ACM Press
Full text available: pdf(452.03 KB) Additional Information: full citation, abstract, references, index terms

Continuously running systems require kernel software updates applied to them without downtime. Facilitating fast reboots, or delaying an update may not be a suitable solution in many environments, especially in pay-per-use high-performance computing clusters and mission critical systems. Such systems will not reap the benefits of new kernel features, and will continue to operate with kernel security holes unpatched, at least until the next scheduled maintenance downtime. To address these prob ...

Keywords: DynAMOS, adaptive operating system, dynamic instrumentation, dynamic software updates, function cloning

19 4.2BSD and 4.3BSD as examples of the UNIX system

John S. Quarterman, Abraham Silberschatz, James L. Peterson
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press
Full text available: pdf(4.07 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

20 Implementing jalapeño in Java

Bowen Alpern, C. R. Attanasio, Anthony Cocchi, Derek Lieber, Stephen Smith, Ton Ngo, John J. Barton, Susan Flynn Hummel, Janice C. Sheperd, Mark Mergen
October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '99**, Volume 34 Issue 10
Publisher: ACM Press
Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, citings, index terms

Jalapeño is a virtual machine for Java™ servers written in Java.A running Java program involves four layers of functionality: the user code, the virtual-machine, the operating system, and the hardware. By drawing the Java / non-Java boundary below the virtual machine rather than above it, Jalapeño reduces the boundary-crossing overhead and opens up more opportunities for optimization.To get Jalapeño started, a boot image of a ...

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Relevance scale

21 Operating systems security: On the effectiveness of address-space randomization

Hovav Shacham, Matthew Page, Ben Pfaff, Eu-Jin Goh, Nagendra Modadugu, Dan Boneh
October 2004 **Proceedings of the 11th ACM conference on Computer and communications security CCS '04**
Publisher: ACM Press

Full text available: pdf(193.68 KB) Additional Information: full citation, abstract, references, citings, index terms

Address-space randomization is a technique used to fortify systems against buffer overflow attacks. The idea is to introduce artificial diversity by randomizing the memory location of certain system components. This mechanism is available for both Linux (via PaX ASLR) and OpenBSD. We study the effectiveness of address-space randomization and find that its utility on 32-bit architectures is limited by the number of bits available for address randomization. In particular, we demonstrate a < ...

Keywords: address-space randomization, automated attacks, diversity

22 Death, taxes, and imperfect software: surviving the inevitable

Crispin Cowan, Calton Pu
January 1998 **Proceedings of the 1998 workshop on New security paradigms NSPW '98**
Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

23 Distributed systems - programming and management: On remote procedure call

Patrícia Gomes Soares
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2 CASCON '92**
Publisher: IBM Press

Full text available: pdf(4.52 MB) Additional Information: full citation, abstract, references, citings

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives,

and a snapshot of the paradigm in use today and of goals for t ...

24 The architecture and performance of security protocols in the ensemble group communication system: Using diamonds to guard the castle

August 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(418.73 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Ensemble is a Group Communication System built at Cornell and the Hebrew universities. It allows processes to create *process groups* within which scalable reliable fifo-ordered multicast and point-to-point communication are supported. The system also supports other communication properties, such as causal and total multicast ordering, flow control, and the like. This article describes the security protocols and infrastructure of Ensemble. Applications using Ensemble with the extensions des ...

Keywords: Group communication, security

25 Secure Embedded Processing through Hardware-Assisted Run-Time Monitoring

Divya Arora, Srivaths Ravi, Anand Raghunathan, Niraj K. Jha

March 2005 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '05**

Publisher: IEEE Computer Society

Full text available: pdf(222.67 KB) Additional Information: full citation, abstract, citings, index terms

Security is emerging as an important concern in embedded system design. The security of embedded systems is often compromised due to vulnerabilities in "trusted" software that they execute. Security attacks exploit these vulnerabilities to trigger unintended program behavior, such as the leakage of sensitive data or the execution of malicious code. In this work, we present a hardware-assisted paradigm to enhance embedded system security by detecting and preventing unintended program behavior. Sp ...

26 Design and Implementation of the AEGIS Single-Chip Secure Processor Using Physical Random Functions

G. Edward Suh, Charles W. O'Donnell, Ishan Sachdev, Srinivas Devadas

May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd annual international symposium on Computer Architecture ISCA '05**, Volume 33 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(288.96 KB) Additional Information: full citation, abstract, index terms

Secure processors enable new applications by ensuring private and authentic program execution even in the face of physical attack. In this paper we present the AEGIS secure processor architecture, and evaluate its RTL implementation on FPGAs. By using Physical Random Functions, we propose a new way of reliably protecting and sharing secrets that is more secure than existing solutions based on non-volatile memory. Our architecture gives applications the flexibility of trusting and protecting only ...

27 Essays in computing science

C. A. R. Hoare

January 1989 Book

Publisher: Prentice-Hall, Inc.

Full text available: pdf(20.91 MB) Additional Information: full citation, abstract, references, cited by, review

Charles Antony Richard Hoare is one of the most productive and prolific computer

scientists. This volume contains a selection of his published papers. There is a need, as in a Shakespearian Chorus, to offer some apology for what the book manifestly fails to achieve. It is not a complete 'collected works'. Selection between papers of this quality is not easy and, given the book's already considerable size, some difficult decisions as to what to omit have had to be made. Pity the editor weighin ...

28 Operating System Structures to Support Security and Reliable Software

Theodore A. Linden
December 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(3.49 MB) Additional Information: full citation, references, citings, index terms

29 User-level interprocess communication for shared memory multiprocessors

Brian N. Bershad, Thomas E. Anderson, Edward D. Lazowska, Henry M. Levy
May 1991 **ACM Transactions on Computer Systems (TOCS)**, Volume 9 Issue 2
Publisher: ACM Press
Full text available: pdf(1.74 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: multiprocessor, operating system, parallel programming, performance, thread

30 Practical data breakpoints: design and implementation

Robert Wahbe, Steven Lucco, Susan L. Graham
June 1993 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1993 conference on Programming language design and implementation PLDI '93**, Volume 28 Issue 6
Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, citings, index terms

A data breakpoint associates debugging actions with programmer-specified conditions on the memory state of an executing program. Data breakpoints provide a means for discovering program bugs that are tedious or impossible to isolate using control breakpoints alone. In practice, programmers rarely use data breakpoints, because they are either unimplemented or prohibitively slow in available debugging software. In this paper, we present the design and implementation of a practical data breakp ...

31 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press
Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

32 Superscalar architectures: Dual use of superscalar datapath for transient-fault detection and recovery

Joydeep Ray, James C. Hoe, Babak Falsafi

December 2001 **Proceedings of the 34th annual ACM/IEEE international symposium on Microarchitecture MICRO 34**

Publisher: IEEE Computer Society

Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

Diminutive devices and high clock frequency of future microprocessor generations are causing increased concerns for transient soft failures in hardware, necessitating fault detection and recovery mechanisms even in commodity processors. In this paper, we propose a fault-tolerant extension for modern superscalar out-of-order datapath that can be supported by only modest additional hardware. In the proposed extensions, error-detection is achieved by verifying the redundant results of dynamically r ...

33 Reliable communications in FTL

Ivan Kalas

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research CASCON '95**

Publisher: IBM Press

Full text available: pdf(245.46 KB) Additional Information: full citation, abstract, references, index terms

Local-area networks based on high-bandwidth packet-switching technology, such as ATM, show a tremendous promise in reducing communication latencies and overheads. However, the lack of flow-control and reliable delivery in ATM networks requires the higher protocol layers to deal with cell loss or corruption. While it is possible to use TCP-based communications over ATM, the protocol mismatch results in a significant loss of the bandwidth. In addition to this, there is also a significant mismatch ...

34 Dynamo: a transparent dynamic optimization system

Vasanth Bala, Evelyn Duesterwald, Sanjeev Banerjia

May 2000 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2000 conference on Programming language design and implementation PLDI '00**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: pdf(156.03 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe the design and implementation of Dynamo, a software dynamic optimization system that is capable of transparently improving the performance of a native instruction stream as it executes on the processor. The input native instruction stream to Dynamo can be dynamically generated (by a JIT for example), or it can come from the execution of a statically compiled native binary. This paper evaluates the Dynamo system in the latter, more challenging situation, in order to emphasize the ...

35 Session summaries from the 17th symposium on operating systems principle (SOSP'99)

Jay Lepreau, Eric Eide

April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(3.15 MB) Additional Information: full citation, index terms

36 Finding application errors and security flaws using PQL: a program query language

Michael Martin, Benjamin Livshits, Monica S. Lam
October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10
Publisher: ACM Press

Full text available: pdf(317.30 KB) Additional Information: full citation, abstract, references, citings, index terms

A number of effective error detection tools have been built in recent years to check if a program conforms to certain design rules. An important class of design rules deals with sequences of events asso-ciated with a set of related objects. This paper presents a language called PQL (Program Query Language) that allows programmers to express such questions easily in an application-specific context. A query looks like a code excerpt corresponding to the shortest amount of code that would violate a ...

Keywords: SQL injection, bug finding, pattern matching, program traces, resource leaks, web applications

37 Distributed programming in Argus

Barbara Liskov
March 1988 **Communications of the ACM**, Volume 31 Issue 3
Publisher: ACM Press

Full text available: pdf(1.52 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Argus—a programming language and system developed to support the implementation and execution of distributed programs—provides mechanisms that help programmers cope with the special problems that arise in distributed programs, such as network partitions and crashes of remote nodes.

38 Instrumentation: The case for transient authentication

Brian D. Noble, Mark D. Corner
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS European workshop: beyond the PC EW10**
Publisher: ACM Press
Full text available: pdf(140.50 KB) Additional Information: full citation, abstract, references

How does a machine know who is using it? Currently, systems assume that the user typing now is the same person who supplied a password days ago. Such *persistent authentication* is inappropriate for mobile and ubiquitous systems, because associations between people and devices are fleeting. To address this, we propose *transient authentication*. In this model, a user wears a small hardware token that authenticates the user to other devices over a short-range, wireless link. This paper ...

39 Bimodal multicast

Kenneth P. Birman, Mark Hayden, Oznur Ozkasap, Zhen Xiao, Mihai Budiu, Yaron Minsky
May 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 2
Publisher: ACM Press

Full text available: pdf(302.06 KB) Additional Information: full citation, abstract, references, citings, index terms

There are many methods for making a multicast protocol "reliable." At one end of the spectrum, a reliable multicast protocol might offer tomicity guarantees, such as all-or-nothing delivery, delivery ordering, and perhaps additional properties such as virtually synchronous addressing. At the other are protocols that use local repair to overcome transient packet loss in the network, offering "best effort" reliability. Yet none of this prior work has treated stability ...

40 Miscellany: Quantum cryptography in practice

Chip Elliott, David Pearson, Gregory Troxel

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '03**

Publisher: ACM Press

Full text available: pdf(809.93 KB) Additional Information: full citation, abstract, references, citings, index terms

BBN, Harvard, and Boston University are building the DARPA Quantum Network, the world's first network that delivers end-to-end network security via high-speed Quantum Key Distribution, and testing that Network against sophisticated eavesdropping attacks. The first network link has been up and steadily operational in our laboratory since December 2002. It provides a Virtual Private Network between private enclaves, with user traffic protected by a weak-coherent implementation of quantum cryptogra ...

Keywords: IPsec, cryptographic protocols, error correction, key agreement protocols, privacy amplification, quantum cryptography, quantum key distribution, secure networks

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41 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(2.54 MB) Additional Information: full citation

42 A probe-based monitoring scheme for an object-oriented distributed operating system

Partha Dasgupta
June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPLSA '86**, Volume 21 Issue 11
Publisher: ACM Press
Full text available: pdf(762.64 KB) Additional Information: full citation, references, citings, index terms

43 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM Press
Full text available: pdf(1.70 MB) Additional Information: full citation, abstract, references, index terms

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

44 Oracle media server: providing consumer based interactive access to multimedia data

Andrew Laursen, Jeffrey Olkin, Mark Porter

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, citings, index terms

Currently, most data accessed on large servers is structured data stored in traditional databases. Networks are LAN based and clients range from simple terminals to powerful workstations. The user is corporate and the application developer is an MIS professional.With the introduction of broadband communications to the home and better than 100-to-1 compression techniques, a new form of network-based computing is emerging. Structured data is still important, but the bulk of data b ...

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1 Randomized instruction set emulation

Elena Gabriela Barrantes, David H. Ackley, Stephanie Forrest, Darko Stefanović

February 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(374.44 KB) Additional Information: full citation, abstract, references, citings, index terms

Injecting binary code into a running program is a common form of attack. Most defenses employ a "guard the doors" approach, blocking known mechanisms of code injection. *Randomized instruction set emulation* (RISE) is a complementary method of defense, one that performs a hidden randomization of an application's machine code. If foreign binary code is injected into a program running under RISE, it will not be executable because it will not know the proper randomization. The pape ...

Keywords: Automated diversity, randomized instruction sets, software diversity

2 Essays in computing science

C. A. R. Hoare

January 1989 Book

Publisher: Prentice-Hall, Inc.

Full text available: pdf(20.91 MB) Additional Information: full citation, abstract, references, cited by, review

Charles Antony Richard Hoare is one of the most productive and prolific computer scientists. This volume contains a selection of his published papers. There is a need, as in a Shakespearian Chorus, to offer some apology for what the book manifestly fails to achieve. It is not a complete 'collected works'. Selection between papers of this quality is not easy and, given the book's already considerable size, some difficult decisions as to what to omit have had to be made. Pity the editor weighin ...

3 Sweeper: a lightweight end-to-end system for defending against fast worms

Joseph Tucek, Shan Lu, Chengdu Huang, Spiros Xanthos, Yuanyuan Zhou, James Newsome, David Brumley, Dawn Song

March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the 2007 conference on EuroSys EuroSys '07**, Volume 41 Issue 3

Publisher: ACM Press

Full text available: pdf(643.69 KB) Additional Information: full citation, abstract, references, index terms

The vulnerabilities that plague computers cause endless grief to users. Slammer compromised millions of hosts in minutes; a hit-list worm would take under a second. Recently proposed techniques respond better than manual approaches, but require expensive instrumentation, which limits deployment. Although spreading "antibodies" (e.g. signatures) ameliorates this limitation, hosts depending on antibodies are defenseless until inoculation; to the fastest hit-list worms this delay is crucial. Add ...

Keywords: VSEF, antibody, dynamic instrumentation, flash worm

4 Intrusion detection: Countering code-injection attacks with instruction-set randomization

Gaurav S. Kc, Angelos D. Keromytis, Vassilis Prevelakis
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**
Publisher: ACM Press

Full text available: pdf(146.35 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe a new, general approach for safeguarding systems against *any* type of code-injection attack. We apply Kerckhoff's principle, by creating process-specific randomized instruction sets (*e.g.,* machine instructions) of the system executing potentially vulnerable software. An attacker who does not know the key to the randomization algorithm will inject code that is invalid for that randomized processor, causing a runtime exception. To determine the difficulty of integrating su ...

Keywords: buffer overflows, emulators, interpreters

5 Selected writings on computing: a personal perspective

Edsger W. Dijkstra
January 1982 Book
Publisher: Springer-Verlag New York, Inc.
Additional Information: full citation, abstract, references, cited by, index terms

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

6 IPSN/SPOTS posters: Harbor: software-based memory protection for sensor nodes

Ram Kumar, Eddie Kohler, Mani Srivastava
April 2007 **Proceedings of the 6th international conference on Information processing in sensor networks IPSN '07**
Publisher: ACM Press
Full text available: pdf(186.71 KB) Additional Information: full citation, abstract, references, index terms

Many sensor nodes contain resource constrained microcontrollers where user level applications, operating system components, and device drivers share a single address space with no form of hardware memory protection. Programming errors in one application can easily corrupt the state of the operating system or other applications. In this paper, we propose *Harbor*, a memory protection system that prevents many forms of memory corruption. We use software based fault isolation ("sandboxing") ...

Keywords: memory protection, software fault isolation

7 Short papers -- storage survivability: An electric fence for kernel buffers

Nikolai Joukov, Aditya Kashyap, Gopalan Sivathanu, Erez Zadok

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**

Publisher: ACM Press

Full text available: pdf(184.35 KB) Additional Information: full citation, abstract, references, index terms

Improper access of data buffers is one of the most common errors in programs written in assembler, C, C++, and several other languages. Existing programs and OSs frequently access the data beyond the allocated buffers or access buffers that were already freed. Such programs and OSs may run for years before their problems can be detected because improper memory accesses frequently result in a silent data corruption. Not surprisingly, most computer worms exploit buffer overflow errors to gain comp ...

Keywords: buffer overflow, file systems, security

8 Hardware and Binary Modification Support for Code Pointer Protection From Buffer Overflow

Nathan Tuck, Brad Calder, George Varghese

December 2004 **Proceedings of the 37th annual IEEE/ACM International Symposium on Microarchitecture MICRO 37**

Publisher: IEEE Computer Society

Full text available: pdf(294.15 KB) Additional Information: full citation, abstract, citings

Buffer overflow vulnerabilities are currently the most prevalent security vulnerability; they are responsible for over half of the CERT advisories issued in the last three years.Since many attacks exploit buffer overflow vulnerabilities, techniques that prevent buffer overflow attacks would greatly increase the difficulty of writing a new worm. This paper examines both software and hardware solutions for protecting code pointers from buffer overflow attacks.We first evaluate the performance over ...

9 Enhancing software reliability with speculative threads

Jeffrey Oplinger, Monica S. Lam

October 2002 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , ACM SIGARCH Computer Architecture News , Proceedings of the 10th international conference on Architectural support for programming languages and operating systems ASPLOS-X**, Volume 37 , 36 , 30 Issue 10 , 5 , 5

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings

This paper advocates the use of a monitor-and-recover programming paradigm to enhance the reliability of software, and proposes an architectural design that allows software and hardware to cooperate in making this paradigm more efficient and easier to program.We propose that programmers write monitoring functions assuming simple sequential execution semantics. Our architecture speeds up the computation by executing the monitoring functions speculatively in parallel with the main computation. For ...

10 Dynamic languages symposium chair's welcome: Hardware tansactional memory support for lightweight dynamic language evolution

Nicholas Riley, Craig Zilles

October 2006 **Companion to the 21st ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**

Publisher: ACM Press
Full text available: pdf(325.22 KB) Additional Information: full citation, abstract, references, index terms

Lightweight dynamic language runtimes have become popular in part because they simply integrate with a wide range of native code libraries and embedding applications. However, further development of these runtimes in the areas of concurrency, efficiency and safety is impeded by the desire to maintain their native code interfaces, even at a source level. Native extension modules' lack of thread safety is a significant barrier to dynamic languages' effective deployment on current and future multic ...

Keywords: Python, concurrency, dynamic languages, locking, safety, transactional memory

11 Workshop on architectural support for security and anti-virus (WASSA): Using DISE to protect return addresses from attack
Marc L. Corliss, E. Christopher Lewis, Amir Roth
March 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(389.57 KB) Additional Information: full citation, abstract, references, index terms

Stack-smashing by buffer overflow is a common tactic used by viruses and worms to crash or hijack systems. Exploiting a bounds-unchecked copy into a stack buffer, an attacker can---by supplying a specially-crafted and unexpectedly long input---overwrite a stored return address and trigger the execution of code of her choosing. In this paper, we propose to protect code from this common form of attack using dynamic instruction stream editing (DISE), a previously proposed hardware mechanism that im ...

12 Death, taxes, and imperfect software: surviving the inevitable
Crispin Cowan, Calton Pu
January 1998 **Proceedings of the 1998 workshop on New security paradigms NSPW '98**
Publisher: ACM Press
Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

13 Practical data breakpoints: design and implementation
Robert Wahbe, Steven Lucco, Susan L. Graham
June 1993 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1993 conference on Programming language design and implementation PLDI '93**, Volume 28 Issue 6
Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, citings, index terms

A data breakpoint associates debugging actions with programmer-specified conditions on the memory state of an executing program. Data breakpoints provide a means for discovering program bugs that are tedious or impossible to isolate using control breakpoints alone. In practice, programmers rarely use data breakpoints, because they are either unimplemented or prohibitively slow in available debugging software. In this paper, we present the design and implementation of a practical data breakp ...

14 Secure Embedded Processing through Hardware-Assisted Run-Time Monitoring
Divya Arora, Srivaths Ravi, Anand Raghunathan, Niraj K. Jha
March 2005 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '05**

Publisher: IEEE Computer Society
Full text available: pdf(222.67 KB) Additional Information: full citation, abstract, citings, index terms

Security is emerging as an important concern in embedded system design. The security of embedded systems is often compromised due to vulnerabilities in "trusted" software that they execute. Security attacks exploit these vulnerabilities to trigger unintended program behavior, such as the leakage of sensitive data or the execution of malicious code. In this work, we present a hardware-assisted paradigm to enhance embedded system security by detecting and preventing unintended program behavior. Sp ...

15 Operating systems security: On the effectiveness of address-space randomization

Hovav Shacham, Matthew Page, Ben Pfaff, Eu-Jin Goh, Nagendra Modadugu, Dan Boneh
October 2004 **Proceedings of the 11th ACM conference on Computer and communications security CCS '04**
Publisher: ACM Press

Full text available: pdf(193.68 KB) Additional Information: full citation, abstract, references, citings, index terms

Address-space randomization is a technique used to fortify systems against buffer overflow attacks. The idea is to introduce artificial diversity by randomizing the memory location of certain system components. This mechanism is available for both Linux (via PaX ASLR) and OpenBSD. We study the effectiveness of address-space randomization and find that its utility on 32-bit architectures is limited by the number of bits available for address randomization. In particular, we demonstrate a < ...

Keywords: address-space randomization, automated attacks, diversity

16 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

17 Bimodal multicast

Kenneth P. Birman, Mark Hayden, Oznur Ozkasap, Zhen Xiao, Mihai Budiu, Yaron Minsky
May 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 2
Publisher: ACM Press

Full text available: pdf(302.06 KB) Additional Information: full citation, abstract, references, citings, index terms

There are many methods for making a multicast protocol "reliable." At one end of the spectrum, a reliable multicast protocol might offer tomicity guarantees, such as all-or-nothing delivery, delivery ordering, and perhaps additional properties such as virtually synchronous addressing. At the other are protocols that use local repair to overcome transient packet loss in the network, offering "best effort" reliability. Yet none of this prior work has treated stability ...

18 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(2.54 MB) Additional Information: full citation

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Like heap **memory**, the allocation stack may be **corrupted** by buffer **StackGuard**: Automatic adaptive **detection** and prevention of buffer-**overflow** attacks. ...
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They **corrupt** program states to simulate flaws and introduce anomalous behavior. "**StackGuard** 1.1: Stack Smashing Protection for Shared Libraries" by ...
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memory overflow by returning NULL. Note that calls to cmc choose() appear However, these **corrupted** packets triggered a lot of error recovery code in ...
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(such as interrupt vector or **memory** address) this auto-**detection** must be done stack-**overflow**, 37. **StackGuard**, 39. string copy functions. strlcat, 39 ...
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John Aycock 'Computer Viruses and Malware' (VX heavens)
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modifies the current register window (Save, **Restore**, Flush). If this is the case, it checks if a. window **overflow** or underflow trap must be signaled. ...
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